

December 19, 2011 Subject: **Predelivery Inspection**
RXT™, GTX† and Wake Pro
(Countries outside North America)

No. **2012-7**

REVISION 1
June 12, 2012

YEAR	MODEL	MODEL NUMBER	PREDELIVERY KIT	SERIAL NUMBER
2012	GTX™ Series			All
	GTX	38CB, 42CB	(P/N 294 000 962)	
	GTX S	33CB	(P/N 294 000 963)	
	GTX LIMITED iS	18CB	(P/N 294 000 961)	
	RXT™ Series			
	RXT RS	17CB	(P/N 294 000 962)	
	RXT-X RS	31CB	(P/N 294 000 962)	
	RXT-X RS aS	41CB	(P/N 294 000 963)	
	WAKE Series			
	WAKE PRO	26CB	(P/N 294 000 962)	

► Underlined text(s) between arrows is (are) modified element(s) to the original publication. ◀

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IMPORTANT NOTICE

This bulletin must be used in conjunction with the check list enclosed in the bag with the *OPERATOR'S GUIDE*. Make sure that Sea-Doo watercraft *PRE DELIVERY CHECK LIST* is completed and signed.

NOTE: To obtain limited warranty coverage, predelivery procedures must be performed by an authorized Sea-Doo watercraft dealer/distributor. Apply all necessary torques as indicated.

The information and component/system descriptions contained in this document are correct at the time of publication. However, BRP maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Due to late changes, there may be some differences between the manufactured product and the descriptions and/or specifications in this document. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations in this document show the typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

The content of this bulletin is designed as a guideline only. All mechanics performing predelivery procedures should have attended the current model year service training.

Further information or inquiries should be directed to your distributor service representative and/or specific *SHOP MANUAL* sections.

Make sure the purchaser receives the *OPERATORS GUIDE*, *PREDELIVERY CHECK LIST* signed copy and *SAFETY DVD*.

WARNING

Torque wrench tightening specifications must be strictly adhered to. Where specified, install new locking devices (e.g. lock tabs, elastic stop nuts). If the efficiency of a locking device is impaired, it must be replaced.

UPDATE SUMMARY

This summary highlights updates to the Predelivery Inspection for MY2012. It does not supersede procedures detailed further in this publication.

IMPORTANT: Technicians should read and apply all procedures in this PDI bulletin as applicable to model.

APPLICABLE TO	UPDATE DESCRIPTION	REFERENCE
All models	The electric component support is now attached to battery holder using two screws.	Parts to be installed – Battery
	The reset of the Maintenance Timer is no more required.	B.U.D.S. Programming
	►Steering alignment procedure modified and applicable to all models◄	Adjustments – Steering Alignment
RXT-X RS aS	Adjustable trim tabs installation	Parts to be installed – Adjustable Trim Tabs

UNCRATING

Crate Cover Removal

1. Carefully lay crate on its bottom.

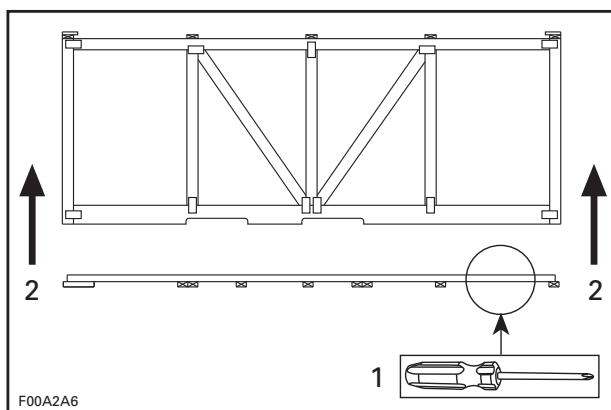
NOTICE Allowing crate to drop may cause serious damage to watercraft.

2. Remove all screws retaining crate cover to crate base.

NOTE: Screws that are used are Robertson† #2 type that require the use of an appropriate screwdriver.

3. Assisted by another person, lift up crate cover.

NOTICE Never tip cover toward the front or rear of the watercraft while lifting it. Raise cover vertically from both ends at the same time.



TYPICAL

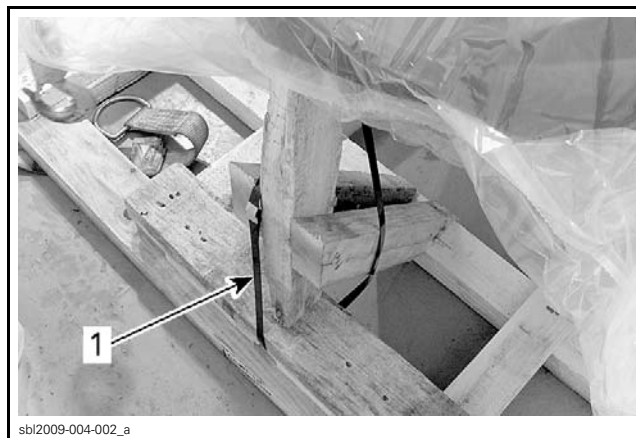
1. Remove screws
2. Raise cover vertically

4. Remove shipping bag or protective wrapping from watercraft.

NOTICE Never leave the watercraft exposed to the sun without removing the shipping bag or the protective wrapping. When exposed to the sun, the temperature inside the shipping bag and the protective wrapping can rise to significantly high levels, enough to start to melt or distort plastic parts.

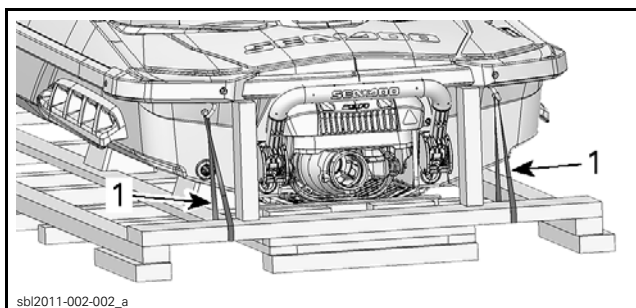
Watercraft Preparation

1. Remove straps retaining rear of watercraft to crate base.
2. Cut front and rear retaining straps.



TYPICAL

1. Front retaining strap



TYPICAL

1. Rear retaining straps

3. Lift watercraft using the LIFTING STRAP (P/N 529 036 189).

NOTICE Using any other lifting strap kit than the recommended one will cause damages to the watercraft. Bumpers will be damaged or torn off and their replacement will be required.



TYPICAL

4. Place the watercraft on an appropriate support stand.

† Robertson is a registered trademark of Robertson Inc.

5. Remove the predelivery kit and all other parts from the front storage compartment and ensure it includes all the items listed in the *PREDELIVERY PARTS LIST*.

NOTE: On **WAKE PRO** model, the wakeboard rack, the lower support bracket and attaching hardware are stored in a bag in the engine compartment.

6. Detach steering column from the front of vehicle.
7. Discard all foam protectors and safety ties.

Predelivery Parts List

Ensure that the following items are included inside front storage compartment:

DESCRIPTION	MODEL	QTY
Operator's guide	All	1
Predelivery check list		1
Safety DVD		1
Predelivery kit		1
Quick reference card		1
Tether cord		Normal: 1 Learning: 1
Trim tab kit	RXT-X RS aS	1
Safety kit	GTX Limited iS	1
Cover		1

The predelivery kit should include the following items:

PREDELIVERY KIT 294 000 961	
DESCRIPTION (LOCATION)	QTY
Plastic caps (upper shock support)	2
M8 x 30 hexagonal screws (upper shock support)	2
M8 stainless steel flat washers (upper shock support)	2
Battery post screws (battery)	2
Battery post washers (battery)	2
Battery post nuts (battery)	2
#10 x 7/8 hexagonal flange screws (electric component support)	2

PREDELIVERY KIT 294 000 962	
DESCRIPTION (LOCATION)	QTY
Battery post screws (battery)	2
Battery post washers (battery)	2
Battery post nuts (battery)	2
#10 x 7/8 hexagonal flange screws (electric component support)	2

PREDELIVERY KIT 294 000 963	
DESCRIPTION (LOCATION)	QTY
Plastic cap (upper shock support)	1
Rubber cap (upper shock support)	1
M8 x 30 hexagonal screws (upper shock support)	2
M8 stainless steel flat washers (upper shock support)	2
Battery post screws (battery)	2
Battery post washers (battery)	2
Battery post nuts (battery)	2
#10 x 7/8 hexagonal flange screws (electric component support)	2

Releasing Moving Deck

Models with Suspension

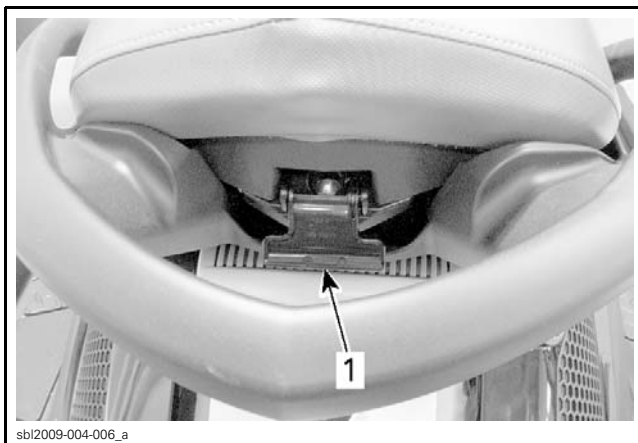
NOTE: For transportation purposes, the moving deck suspension has been completely compressed and secured at the factory using a cable. Be sure to release tension and remove cable from moving deck suspension prior to working on the watercraft.

WARNING

The moving deck suspension is attached under tension (spring-loaded). Before releasing tension:

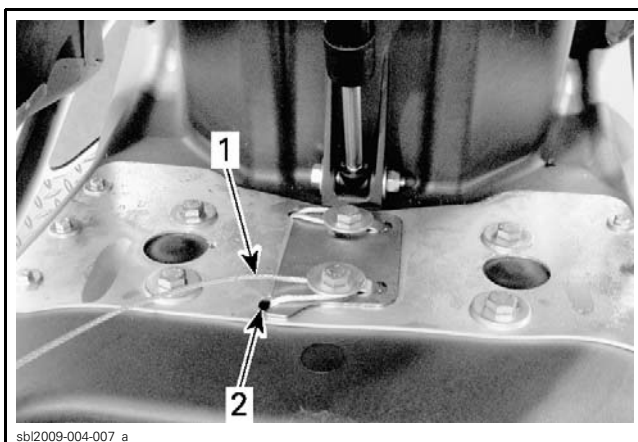
- Clear moving deck of any objects and tools.
- Do not use pneumatic or electric tools for removing moving deck retaining screws.
- Strictly adhere to following procedure.

1. Lift seat by pressing the rear latch and moving seat to the rear and then upwards.



1. Rear latch

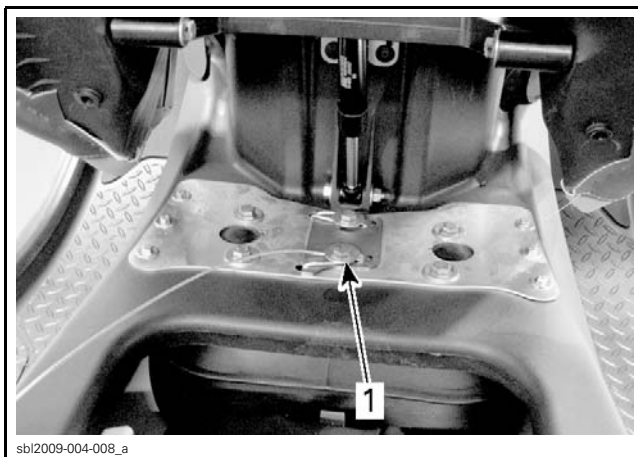
2. Remove cable free end from hole upper shock support.
3. Make a knot at the end of the cable to prevent it from going into the hole.



TYPICAL – iS MODEL SHOWN

1. Cable free end
2. Hole in upper shock support

4. **Slowly** unscrew rear retaining screw (Do not use pneumatic or electric tools).



TYPICAL – iS MODEL SHOWN

1. Rear retaining screw

5. **Carefully** lift rear tab on cable retainer plate upwards using a flat screwdriver.

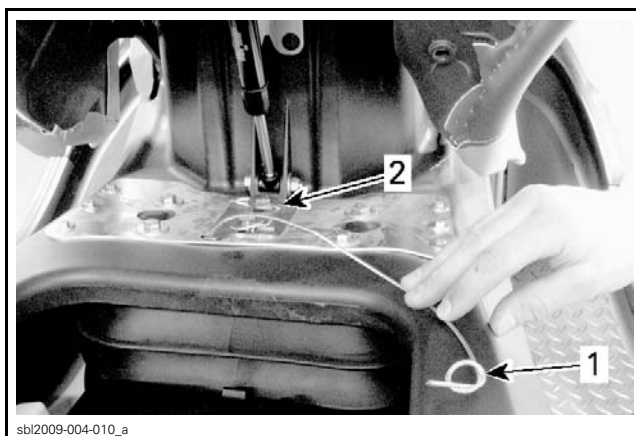


TYPICAL – iS MODEL SHOWN

1. Rear tab

NOTE: After lifting the rear tab, the cable will slide into the hole and the moving deck will move upwards. Ensure that the cable is free of tension before removing the front screw.

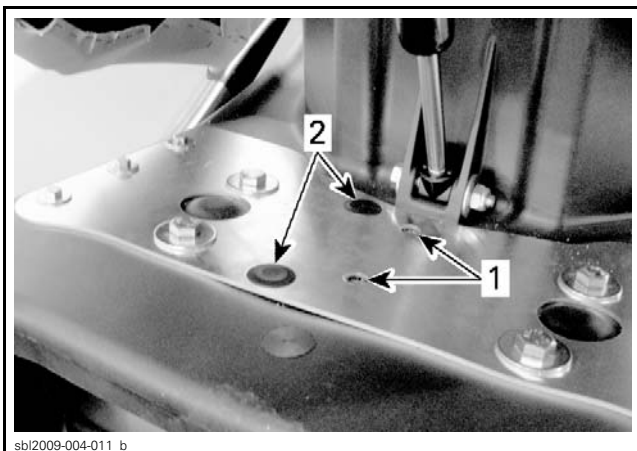
6. Remove front retaining screw.



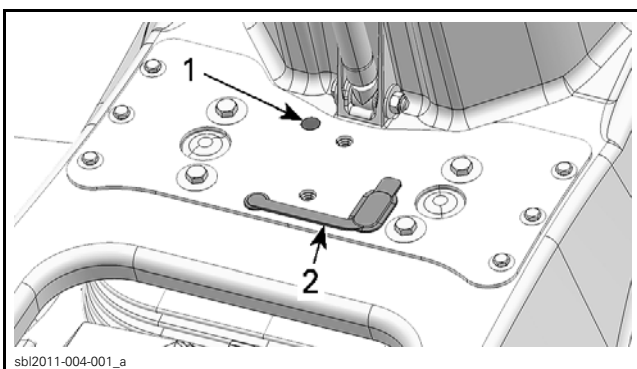
TYPICAL – iS MODEL SHOWN

1. Knot
2. Front retaining screw

7. Completely remove and discard the following items from moving deck.
 - Cable
 - Retaining screws
 - Washers
 - Cable retainer plate.
8. Install plastic and rubber caps (from predelivery kit) in upper shock support holes as per the following illustrations.

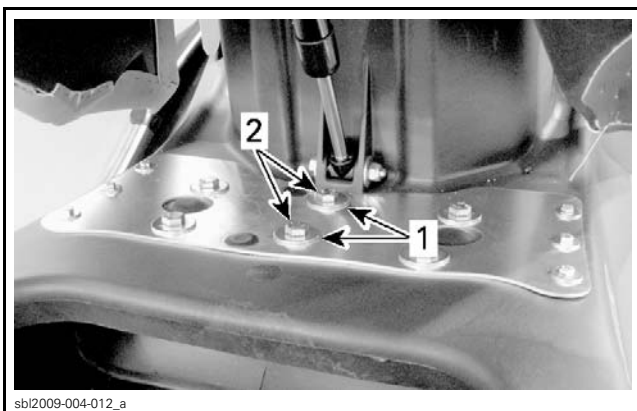


iS SUSPENSION
1. Center holes
2. Plastic caps

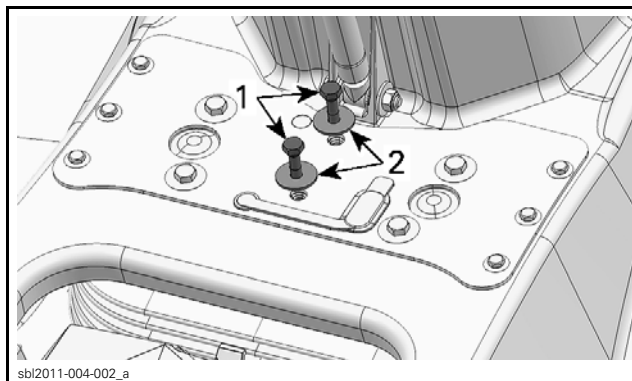


RXT-X RS aS AND GTX S
1. Plastic cap
2. Rubber cap

9. Install M8 x 30 hexagonal screws and M8 stainless steel flat washers in center of upper shock support (from predelivery kit).



iS SUSPENSION
1. M8 stainless steel flat washers
2. M8 x 30 hexagonal screws



RXT-X RS aS AND GTX S
1. M8 x 30 hexagonal screws
2. M8 stainless steel flat washers

TIGHTENING TORQUE	
Upper shock support center screws	21 N•m (15 lbf•ft)

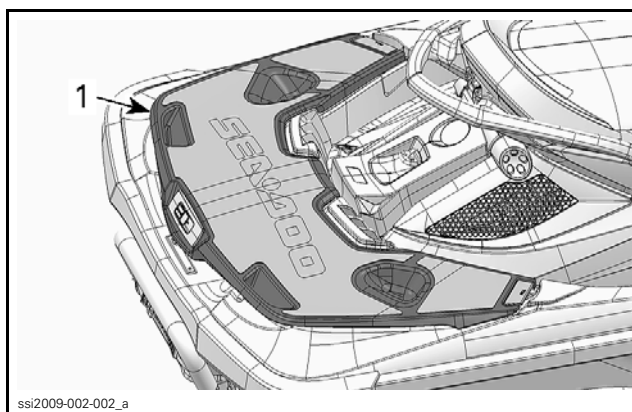
PARTS TO BE INSTALLED

Battery

Battery Access

Models with Suspension

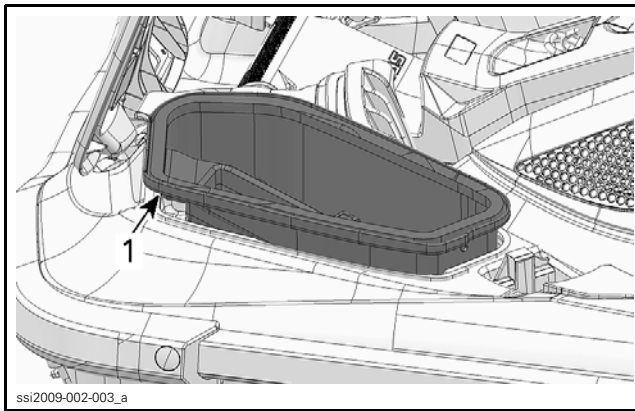
1. Open the boarding platform.



1. Boarding platform

2. Remove the RH (starboard) storage bin.

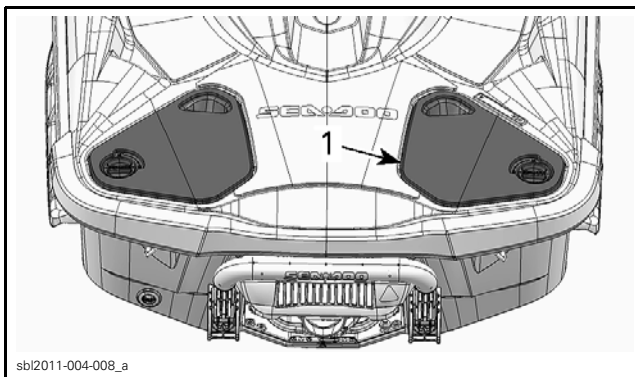
NOTE: The storage bin is secured using two plastic rivets.



1. RH (starboard) storage bin

Models without Suspension

Remove RH rear access panel.



1. RH rear access panel

Battery Holder Removal



WARNING

Never charge or boost battery while installed in watercraft.

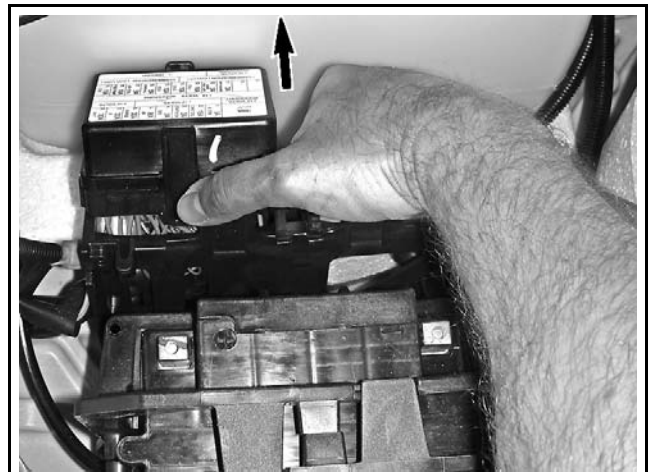
1. Refer to illustration and pry the upper tab of electrical components support to unlock it from the battery holder.



TYPICAL

1. Electrical components support upper tab

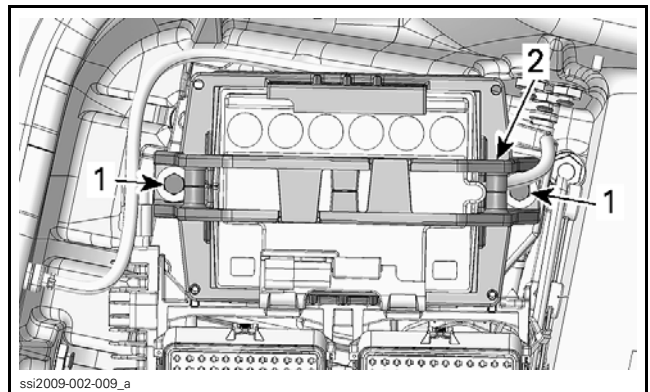
2. Move aside electrical component support.



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TYPICAL

3. Remove screws securing battery holder to battery holder base (one on each side).



SOME PARTS REMOVED FOR CLARITY

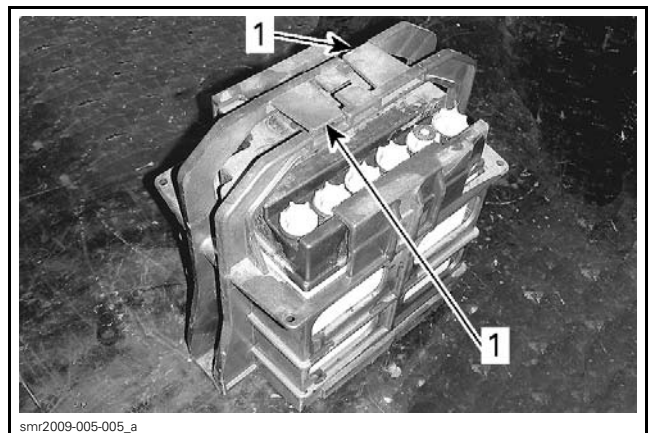
1. Retaining screws
2. Battery holder

4. Disconnect vent hose from battery.
5. Remove battery holder from watercraft.

Battery Removal

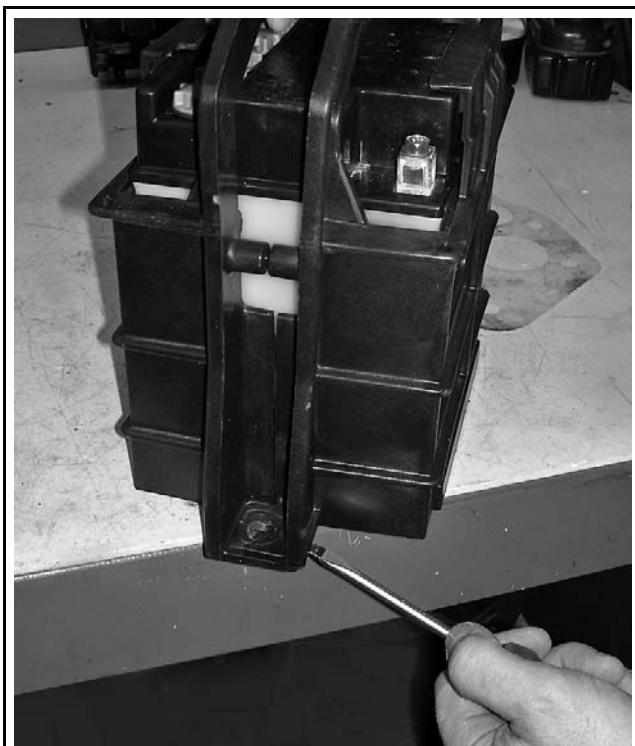
All Models

Unlock the upper tabs then slightly open battery holder.



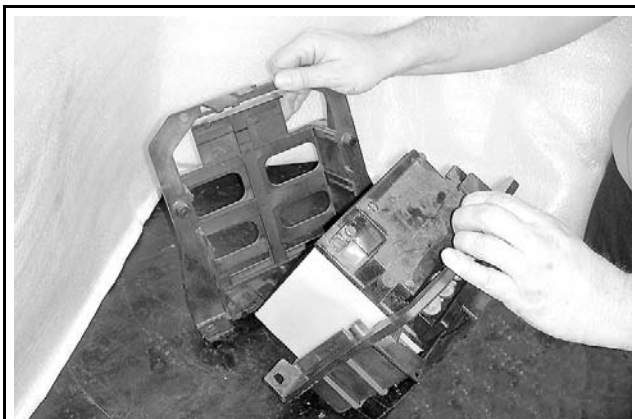
1. Unlock here

Insert a screwdriver between the lower tabs to unlock them.



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Remove battery from battery holder.



smr2009-005-007

Battery Activation and Charging

Refer to the latest edition of *Sea-Doo BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN* and to instructions notice attached to battery for proper activating, charging and maintenance procedure.

Battery Installation

1. Install charged battery in battery holder.
2. Ensure battery holder is properly snapped together, both top and bottom.

3. Insert the retaining screws and washers of battery holder in their holes.
4. Position battery holder in watercraft with posts toward the inside of the watercraft.
5. Engage the first threads of both retaining screws.
6. Tighten screws securing battery holder to battery holder base (one on each side).

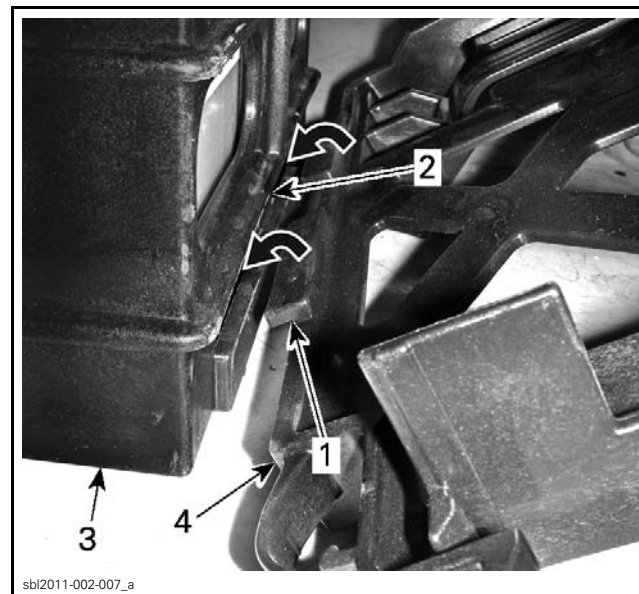
NOTICE Do not use any power tools to avoid stripping of battery holder attachment points.

TIGHTENING TORQUE	
Battery holder screws	14 N•m (124 lbf•in)

7. Reconnect the watercraft vent hose to the battery vent outlet.

NOTICE Make sure vent hose is not pinched or bent. Avoid skin contact with electrolyte.

8. Insert the lower tabs of electrical components support in the lower openings of battery holder as illustrated.



1. Lower tab of electrical components
2. Lower openings of battery holder
3. Battery holder
4. Electrical components support

NOTICE The electrical components support will not be secured properly if this step is not done correctly.

9. Grab the electrical components support and pull on it to lock the upper tab as illustrated.



NOTE: A clicking sound should be heard to indicate that it is locked.

10. Put your hand over the electrical components support and shake it to make sure it is locked safely.
11. Secure electrical component support to battery holder using provided #10 x 7/8 hexagonal flange screws.



12. Connect the RED (+) battery cable **then** the BLACK (-) cable with:
 - 1 hexagonal screw,
 - 1 flat washer and
 - 1 nut, all from predelivery kit.

⚠ WARNING

Always connect battery cables in the specified order, RED (+) cable first, BLACK (-) cable last.

TIGHTENING TORQUE

Battery cable screws	4 N•m (35 lbf•in)
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13. Apply DIELECTRIC GREASE (P/N 293 550 004) on battery posts.
14. Cover positive battery post with rubber boot.
15. Install all remaining removed components.

Steering Installation

1. Cut retaining strap that secures front storage cover to watercraft.

NOTICE

- Properly hold the front storage cover with one hand while cutting the retaining strap.
- Be careful not to damage watercraft components while cutting strap.



TYPICAL

1. Front storage cover
2. Retaining strap

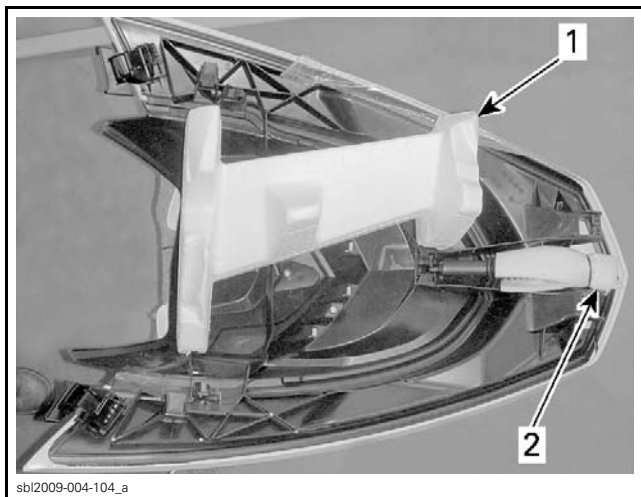
2. Cut locking tie securing front storage cover to watercraft.
3. Carefully remove the cover from watercraft.



TYPICAL

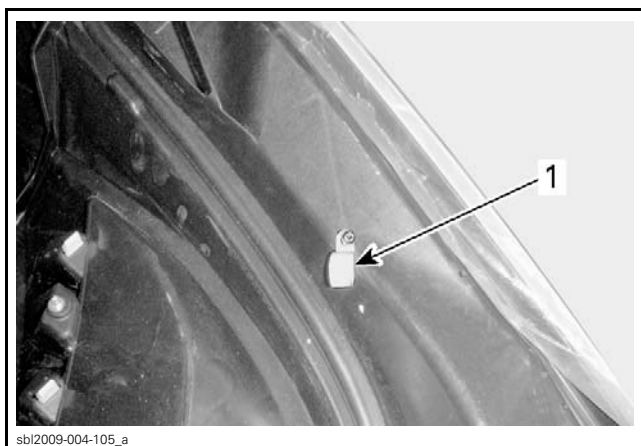
1. Locking tie

4. Remove foam from storage cover.
5. Cut locking tie that secures gas shock in storage cover.



1. Foam
2. Gas shock

6. Remove retaining clamp from inside of storage cover.

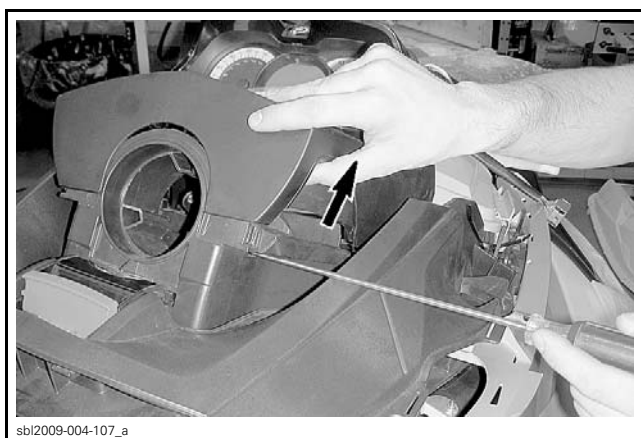


1. Retaining clamp

7. Disconnect gauge connector from information center.

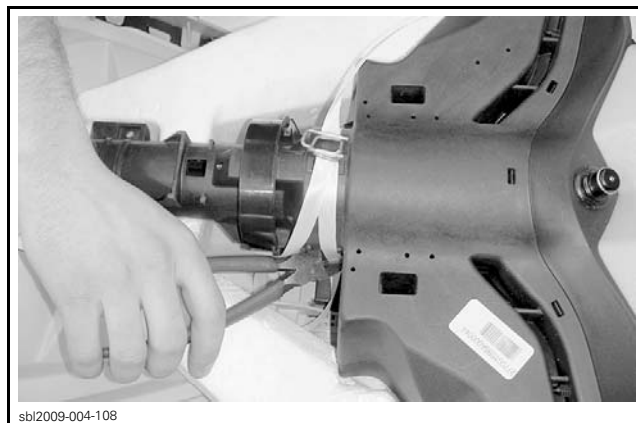
8. Disconnect steering connectors from watercraft harness.

9. Remove gauge support by unlocking the tabs using a screwdriver and lifting it upwards.



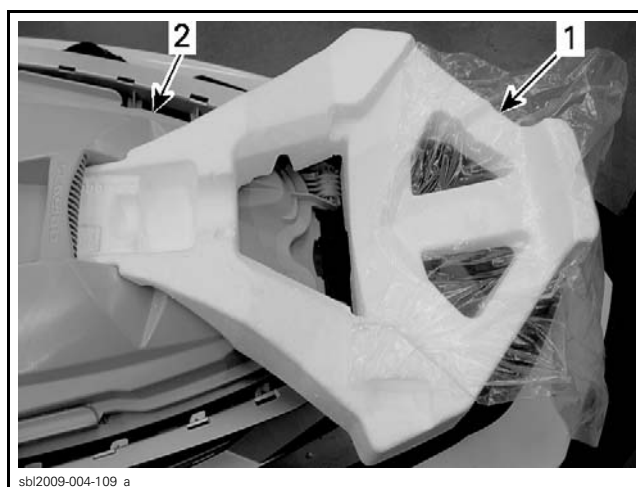
10. Cut retaining strap that secures steering to protective foam.

11. Carefully remove steering from foam.



12. Remove foam from watercraft.

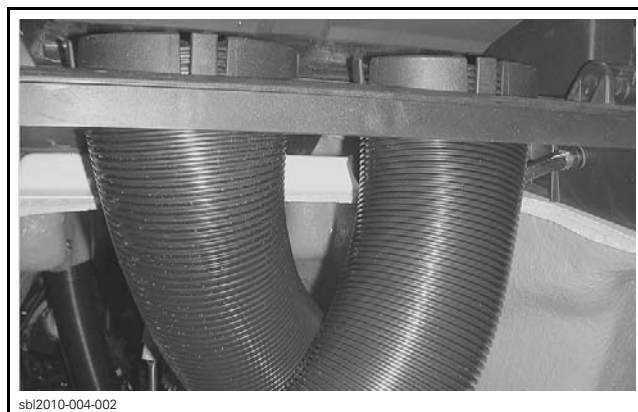
13. Remove front storage bin from watercraft.



1. Steering foam
2. Front storage bin

Models Without Suspension

14. Reach in through the front storage compartment and remove the forward air inlet hoses.



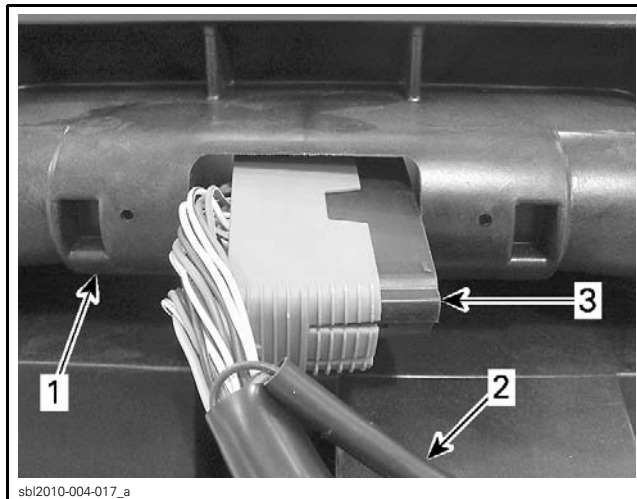
FRONT AIR INLET HOSES

All Models

15. Through the front storage compartment, pull the watercraft harness connectors through the opening in the steering support so they rest just below the steering support.

15.1 Insert the O.T.A.S. connector through the steering support first.

15.2 Then turn the 24 pin connector on end as illustrated and push it through the hole in the steering mount as you pull the wiring through from the inside.



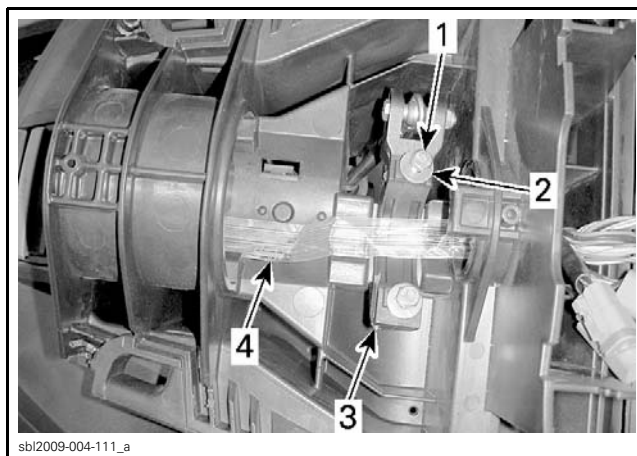
STEERING SUPPORT - BOTTOM VIEW

- 1. Steering support
- 2. O.T.A.S. connector wiring
- 3. 24 pin connector on end

NOTE: On models with a moving deck, the steering connectors are to be positioned between the fixed deck and the moving deck.

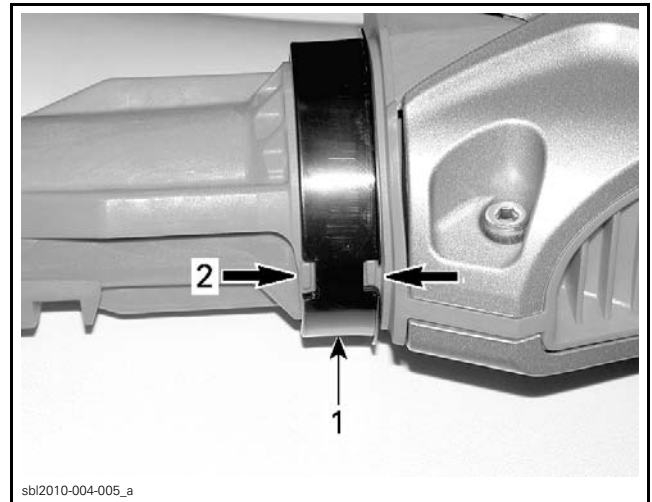
16. Remove screws and washers from the steering arm. Keep them for reuse.

17. Remove tape retaining the steering arm.



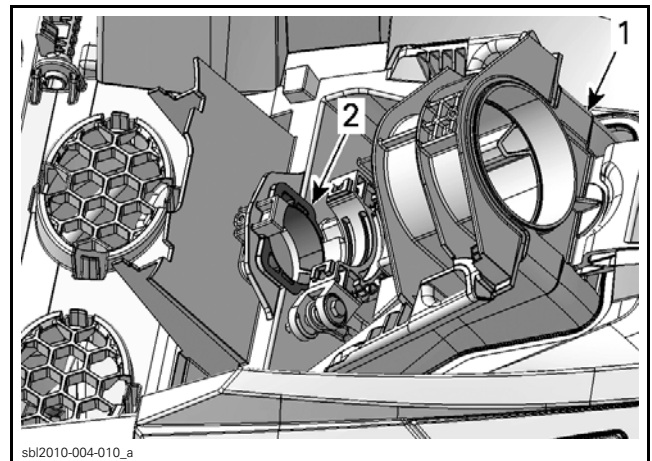
- 1. Steering retaining screw
- 2. Washer
- 3. Steering arm
- 4. Tape

18. Ensure upper steering wear bushing is properly installed on the steering.



- 1. Upper wear bushing on steering
- 2. Location tabs for bushing

19. Remove the forward bushing from the steering support.



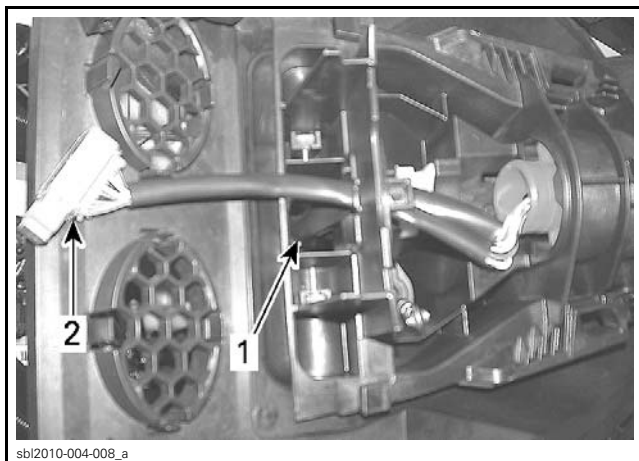
- 1. Steering support
- 2. Lower bushing

20. Carefully insert the steering through the large opening in the steering support.

NOTE: Do not engage the steering through the second smaller opening at this time, only the wiring harness should pass through the second opening.

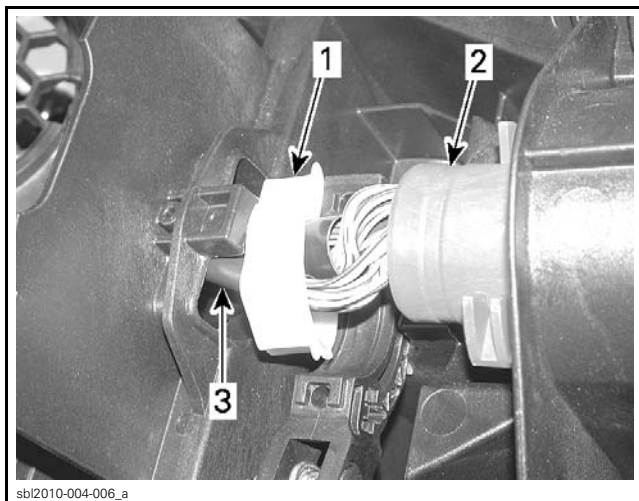
21. Insert steering harness connectors through the opening in the steering support.

NOTE: Do not insert gauge connector through steering support opening.



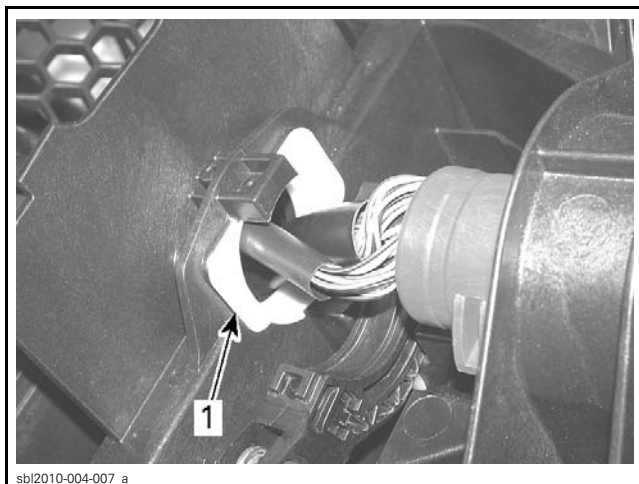
1. Steering harness through opening in steering support
2. Gauge connector

22. Insert the front steering wear bushing over the steering harness.



1. Lower wear bushing
2. Steering partially inserted through steering support
3. Steering harness completely inserted through steering support

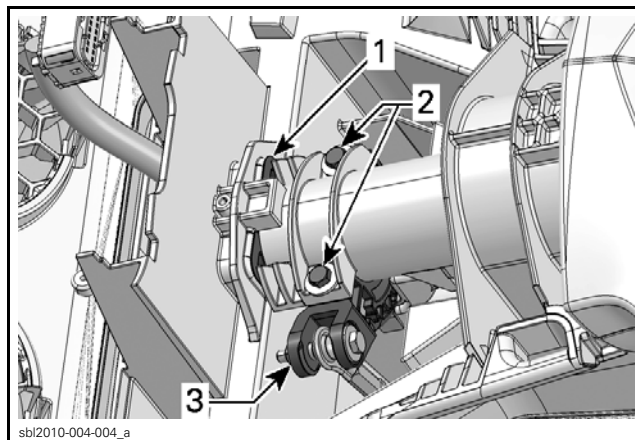
23. Push lower wear bushing into steering support.



1. Wear bushing push into steering support

24. Complete insertion of the steering into its support.
25. Install steering retaining screws and washers (previously removed) through molded steering bracket into steering arm.
26. Tighten steering retaining screws to specification $6\text{ N}\cdot\text{m}$ ($53\text{ lbf}\cdot\text{in}$).

TIGHTENING TORQUE	
Steering arm retaining screws	$6\text{ N}\cdot\text{m}$ ($53\text{ lbf}\cdot\text{in}$)



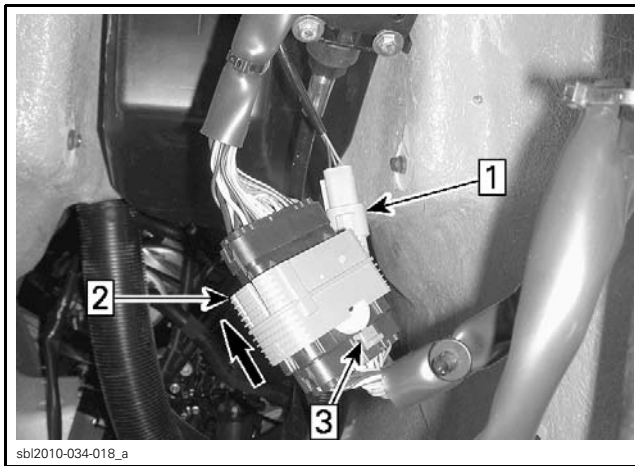
1. Front bushing
2. Steering retaining screws and washers
3. Steering arm

27. Install gauge support by pushing it downwards. Make sure to engage front and rear locking tabs.



28. From inside storage compartment, connect the 24 pin steering connector and the 3 pin O.T.A.S. connector to watercraft harness.

NOTE: Ensure the locking mechanism is fully engaged, and the safety tab is inserted in the locking mechanism.

**TYPICAL**

Step 1: Connect O.T.A.S. connector

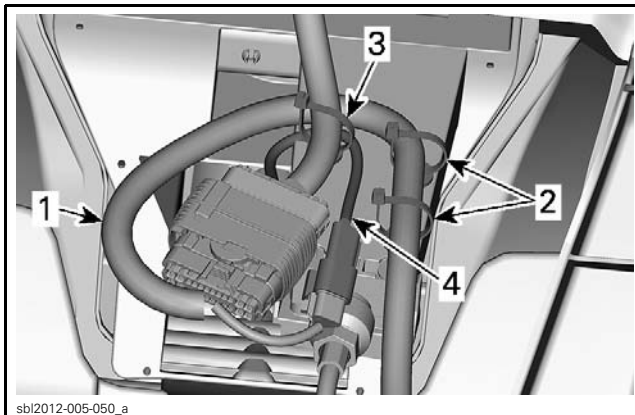
Step 2: Connect 24 pin steering connector

Step 3: Push safety tab into connector locking mechanism

NOTE: Before carrying out the remaining steps, ensure steering cable is properly installed and carry out the *STEERING ALIGNMENT* procedure described further in *ADJUSTMENTS*. Securing the steering and vehicle harness to the steering support extension hinders access to the steering cable clamp bolts.

Models With Suspension

29. Make a loop with the vehicle harness and insert its locking tie holders (Christmas tree) in LH holes (port side) of the steering cable support. See following illustration.
30. Route the O.T.A.S. harness under the steering harness (between connector and locking tie holder).
31. Insert the locking tie holder installed on the steering harness in the **top** RH hole (starboard side) provided in the steering cable support.

**TYPICAL – FROM INSIDE OF VEHICLE**

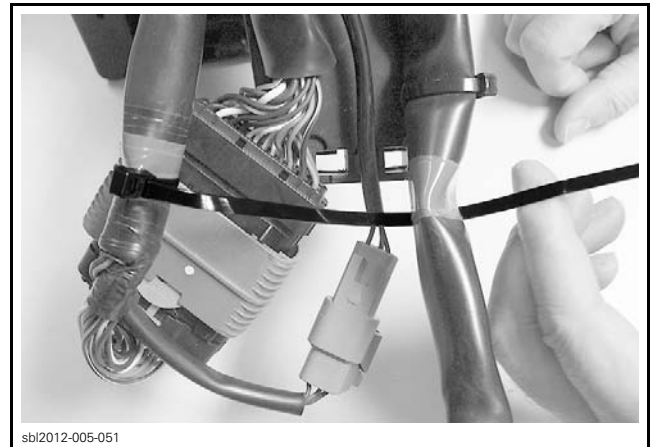
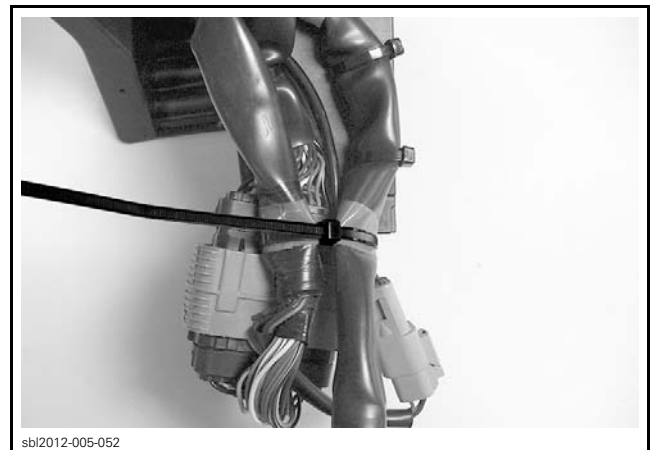
1. Vehicle harness loop

2. Locking tie holders (Vehicle harness)

3. Locking tie holder (Steering harness)

4. O.T.A.S. wiring harness routing

32. Using the locking tab installed at factory, attach together, the both free sections of vehicle harness. Do not attach O.T.A.S. wiring harness with vehicle harness.

**PICTURE TAKE OUT OF THE VEHICLE FOR CLARITY**

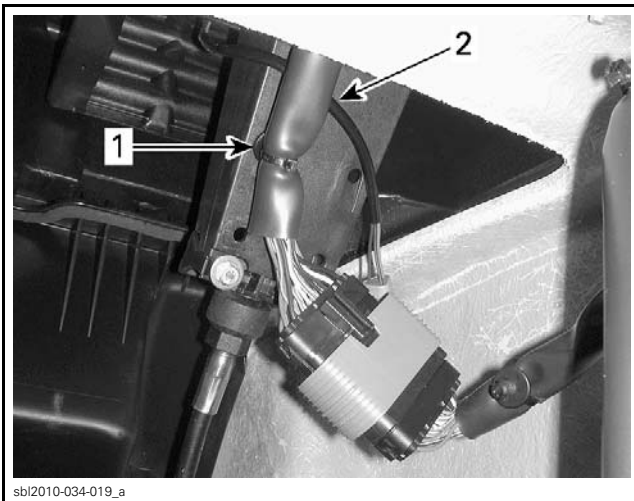
33. Cut off extra length of locking tie.
34. Check if the RED tape installed on the vehicle harness is visible from the end of its bellows. If so, push vehicle harness in the bellows until RED tape is no more visible.

Models Without Suspension

The steering harness comes with a locking tie holder installed on it near the connector.

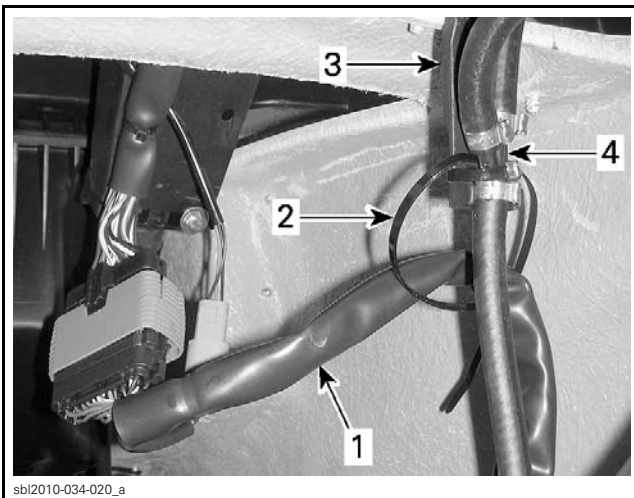
35. Insert the locking tie holder on the steering harness into the **top** starboard hole (RH) of the steering cable support.

NOTE: Be sure to route the O.T.A.S. wiring harness between the steering support and steering harness above the locking tie holder.



1. Steering harness locking tie (top starboard hole)
2. O.T.A.S. wiring harness

36. The vehicle harness is hung loosely from the vent hose support using a long locking tie, see following illustration.



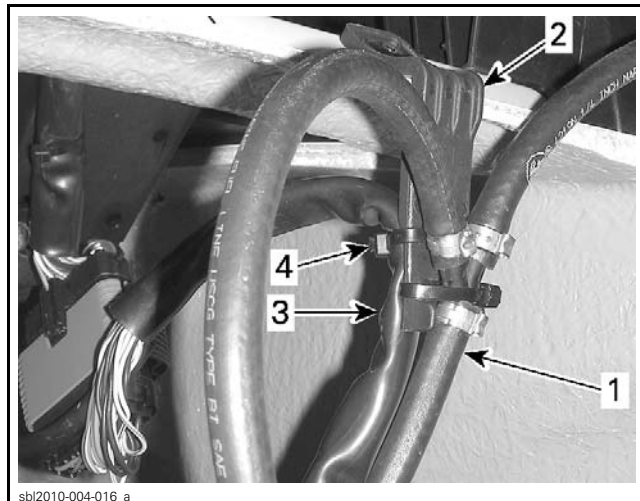
1. Vehicle harness
2. Loose locking tie
3. Vent hose support
4. Vent hose Y fitting

37. Position the vehicle harness behind the fuel vent hose support making sure the wiring harness is not pulled up too tightly.

38. Pull tail of the locking tie to secure the wiring harness to the support.

⚠ WARNING

Wiring harness must not come into contact with fuel vent hose clamps or damage will occur to wiring harness.



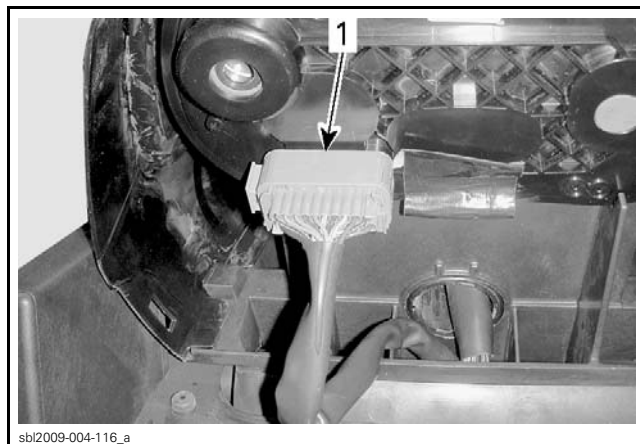
1. Vent hoses
2. Vent hose support
3. Vehicle harness behind vent hose support
4. Harness locking tie

39. Cut off extra length of locking tie.

40. Install forward air inlet hoses.

All Models

41. Connect gauge connector.



TYPICAL

1. Gauge connector

42. Install gauge support cover.

42.1 Soften the bottom portion of cover using an incandescent or halogen light.

42.2 First, insert the top of the cover.

42.3 Press both lower sides of cover to lock tabs.

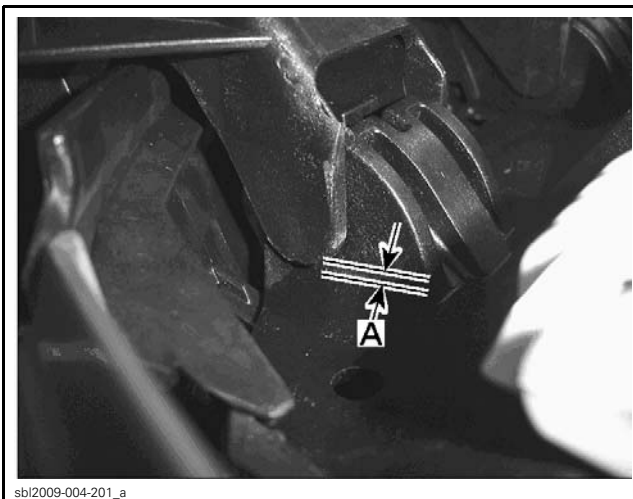


Storage Cover

1. Install front storage cover on watercraft front hinges.

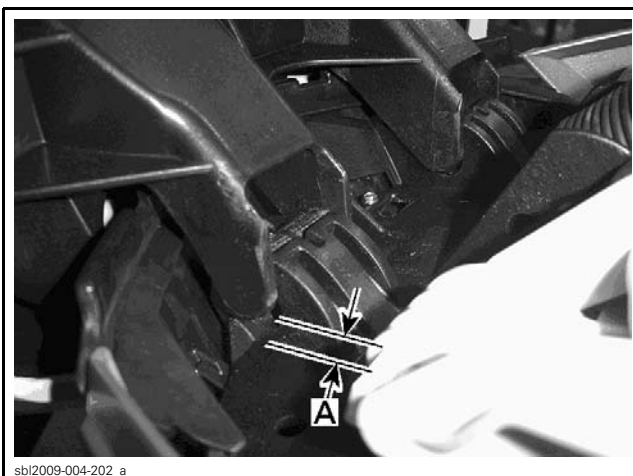
- 1.1 Fully insert cover hinges into the base.

NOTICE Be sure to insert cover hinges completely to avoid breaking cover hinges or damaging the base. A click must be heard to indicate complete insertion.



HINGES FULLY INSERTED

A. Approximately 3 mm (1/8 in)



HINGES PARTIALLY INSERTED

A. More than 3 mm (1/8 in)

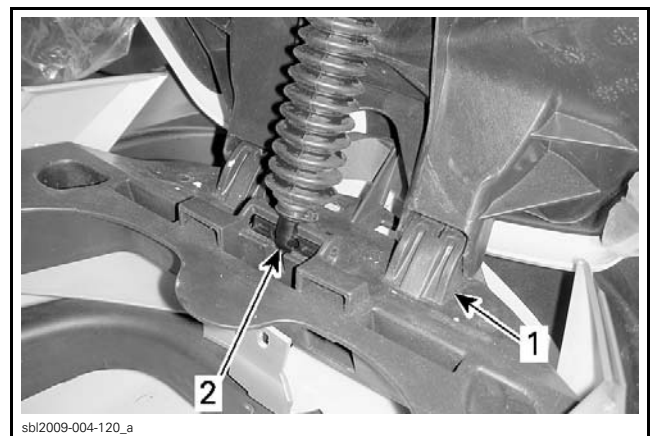
- 1.2 Gently, try to close the cover.

- If any resistance is felt when closing the cover, stop all. DO NOT force to close the cover.
- Open the cover and check hinges position, they are probably not fully inserted into brackets.
- Reposition cover hinges into brackets and try again.

- 1.3 Repeat until cover can be closed without any resistance.

2. Position the gas shock lower attachment on cavity opening.

NOTICE To avoid breaking the attachment, do not force to insert it in cavity.



1. Front hinge

2. Shock absorber lower attachment point

Close cover to lock the bottom of the gas shock.

Wakeboard Rack Support Bracket (WAKE PRO Model)

This model is shipped with a wakeboard rack (support) which may be installed on the aft port side of the PWC.

Two support brackets (anchors) are provided to attach the wakeboard rack to the PWC. The upper support bracket comes already installed on the PWC, the lower support bracket **must** be installed before delivery of the PWC.

The wakeboard rack, the lower support bracket and attaching hardware are stored in a bag in the engine compartment

PARTS TO BE INSTALLED		
ITEM DESCRIPTION	P/N	QTY
Lower anchor	(P/N 291 002 864)	1
M6 X 25 screw	(P/N 250 000 466)	2
Wakeboard support	(P/N 291 002 854)	1

Lower Support Bracket Installation

- 1. Open the seat.
- 2. Retrieve the bag that contains the wakeboard rack and the lower support bracket from the engine compartment.
- 3. Locate the two pre-drilled holes on the LH side of the hull, bellow the upper support bracket.

NOTE: The two pre-drilled holes are filled in with silicone sealant at the factory.

- 4. Using a screwdriver (or similar tool), push the dry sealant inside the hull.
- 5. Apply a bead of LOCTITE 5150 (SILICONE SEALANT) (P/N 296 000 309) in each hole.



LOCTITE 5150 SILICONE SEALANT APPLICATION

- 6. Install lower anchor and tighten self tapping screws to specification.

TIGHTENING TORQUE	
Lower anchor retaining screws	6 N•m (53 lbf•in)

NOTICE Do not tighten anchor retaining screws above specified torque.



BOTH ANCHORS AFFIXED

Wakeboard Rack Installation

- 1. Install wakeboard rack onto lower support anchor.

NOTICE Ensure wakeboard rack and lower support anchor are well engaged together before rotating the wakeboard rack, or damage to either part may occur.



WAKEBOARD RACK ENGAGED IN LOWER SUPPORT ANCHOR

- 2. Rotate wakeboard rack upwards and push top of wakeboard rack to lock it onto the upper support anchor.



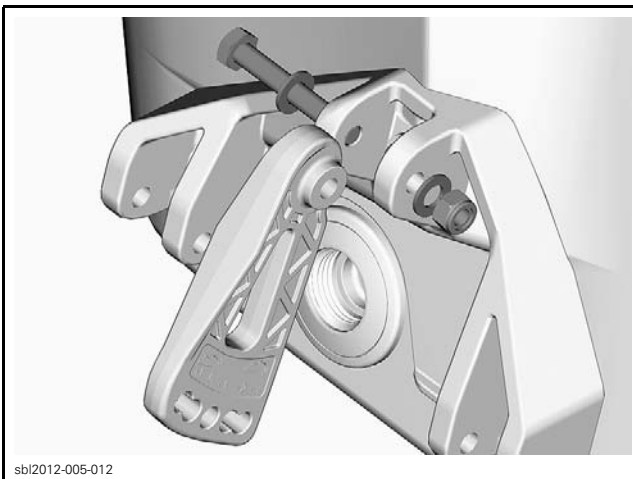
WAKEBOARD RACK LOCKED INTO UPPER SUPPORT ANCHOR

Adjustable Trim Tabs (RXT-X RS aS Model)

NOTE: Use same procedure for both sides.

NOTICE Do not use pneumatic or electrical tools when stainless steel fasteners are used as seizure may occur.

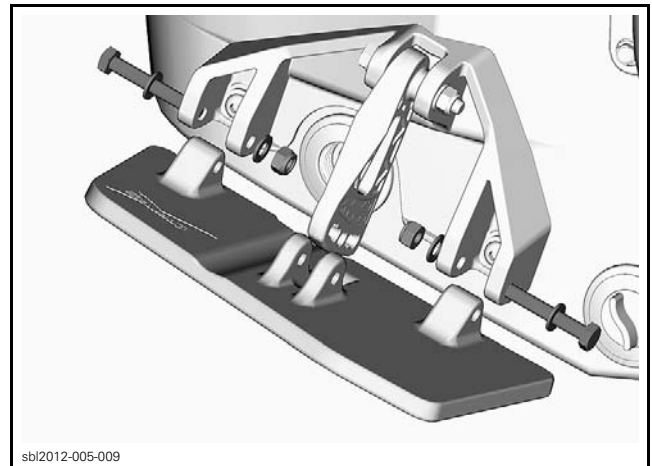
1. Install the link rod in the upper bracket of the support, as shown, using a M8 x 55 hexagonal bolt, 2 washers and a M8 elastic stop nut.



TIGHTENING TORQUE

Link rod upper retaining nut	13 N•m (115 lbf•in)
------------------------------	---------------------

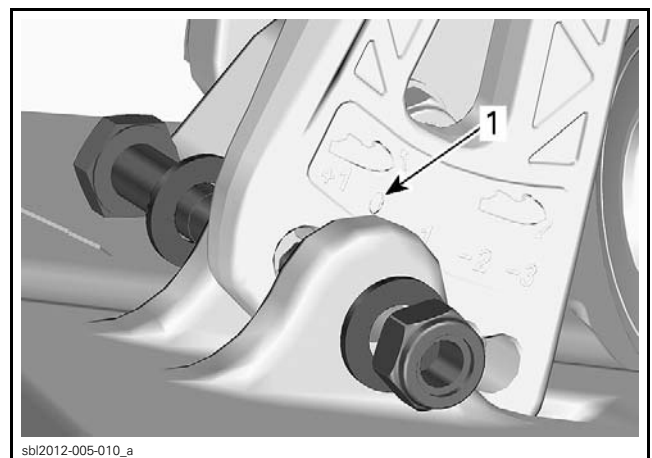
2. Secure the trim tab to support as shown, using a M8 x 55 hexagonal bolt, 2 washers and a M8 elastic stop nut on each side.



TIGHTENING TORQUE

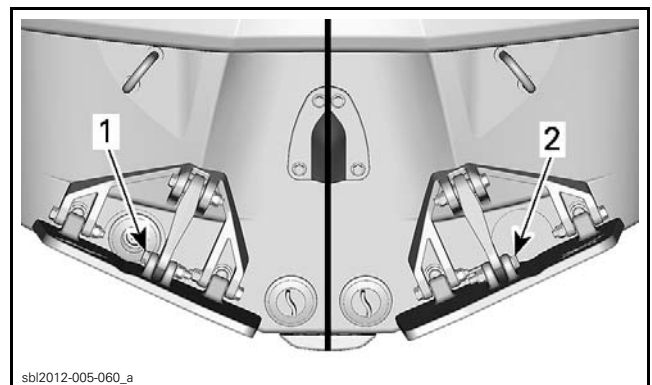
Trim tab retaining nuts	13 N•m (115 lbf•in)
-------------------------	---------------------

3. Secure the bottom of the link rod. Position the link rod to the 0 position (factory setting).
4. Use a M8 x 50 hexagonal bolt, 2 washers and a M8 elastic stop nut to secure it.



1. 0 (zero) position (factory setting)

NOTE: Make sure to place the bolt head toward outside of watercraft.



1. Bolt head here – left link rod
2. Bolt head here – right link rod

TIGHTENING TORQUE	
Link rod lower retaining nut	13 N•m (115 lbf•in)

Accessories

1. Install accessories (if any) as per their installation instructions (included in each kit).
2. Install any other equipment required by law (if any).

FUEL SYSTEM PRESSURIZATION

Fuel System Pressurization Procedure

WARNING

A pressure test must be done before starting engine.

Pressurize fuel system, refer to the appropriate *SHOP MANUAL* for complete procedure.

It may be necessary to remove and install the safety lanyard 2 or 3 times to initially feed fuel system.

NOTE: This procedure should be explained to purchaser at delivery in case of the operator runs out of fuel.

FLUIDS

General Guidelines

All fluids (except fuel) have already been filled at factory, it is only necessary to validate them.

Fuel

1. Verify fuel line connectors prior to powering-up ECM. This verification must be done visually as well as manually by physically checking each connection.

WARNING

Never add fuel prior to checking fuel line connector tightness.

2. Add fuel in the fuel reservoir. Refer to *SPECIFICATION* at the end of this bulletin.

WARNING

Fuel is flammable and explosive under certain conditions. Always work in a well ventilated area.

NOTICE Never add oil in fuel. Never use fuel containing more than 10% alcohol (ethanol or methanol).

Engine Oil

Recommended Engine Oil

Use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121).

If XPS™ engine oil is not available, use a 10W40 mineral engine oil compatible with wet clutches.

NOTICE The engine of this watercraft has been developed and validated using the BRP XPS™ synthetic blend oil. BRP strongly recommends the use of its XPS synthetic blend oil at all times. Damages caused by oil which is not suitable for the engine will not be covered by the BRP limited warranty.

NOTICE NEVER use synthetic oil. This would impair the proper operation of the supercharger clutch. Do not add any additives to the recommended oil. Mineral oils for API service classification SM contain additives (friction modifiers) that may cause inappropriate slippage of the supercharger and eventually lead to premature wear.

Engine Oil Level Verification (Watercraft Out of Water)

NOTE: Oil level can be checked with watercraft either in or out of water.

NOTICE Check oil level frequently and refill if necessary. Do not overfill. Operating the engine with an improper level may severely damage engine.

WARNING

Certain components in the engine compartment may be very hot. Direct contact may result in skin burn.

CAUTION When operating the engine while the watercraft is out of water, the heat exchanger in the ride plate may become very hot. Avoid any contact with the ride plate as burns may occur.

1. Place watercraft level.

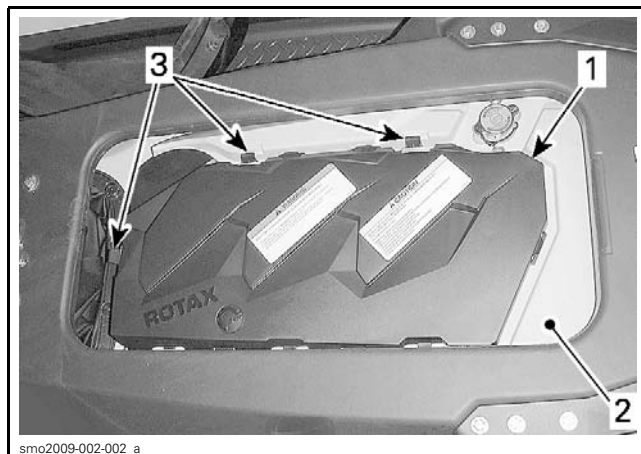
NOTE: The watercraft is level when it is in water. When on a trailer, raise trailer tow pole and block in this position when bumper rail is level.

2. Open seat.

Models with Suspension

3. Remove the rear ventilation box from the deck extension to gain partial access to engine compartment.

NOTE: To remove the ventilation box, simply release the 3 clips retaining it and lift it off the deck extension.



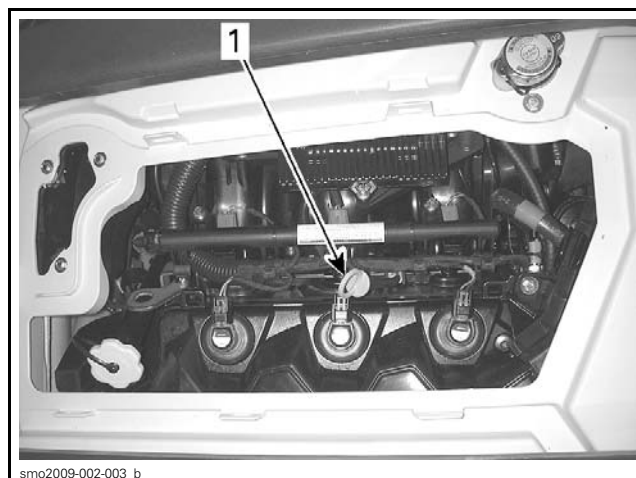
1. Ventilation Box
2. Deck Extension
3. Retaining clips

All Models

4. Install a garden hose on the exhaust system flushing connector. Refer to *FLUSHING* in *POST-OPERATION CARE* subsection in the *OPERATOR'S GUIDE* and follow the procedure.

NOTICE

- Never run engine without supplying water to the exhaust system. Failure to cool exhaust system may severely damage it.
 - Never run engine longer than 2 minutes. Drive line seal has no cooling when watercraft is out of water.
5. With the engine already at normal operating condition, let engine **idle for 30 seconds** then stop engine.
6. Wait at least 30 seconds for the oil to settle in the engine, then pull dipstick out and wipe clean.

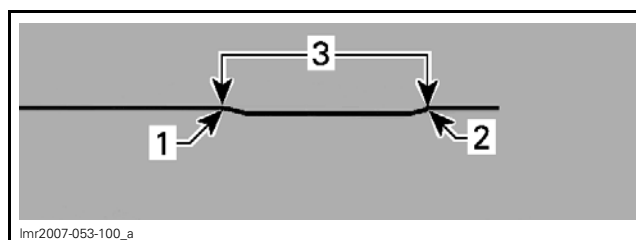


TYPICAL - RXT IS ILLUSTRATED

1. Oil dipstick

7. Reinstall dipstick, push in completely.

8. Remove dipstick again and read oil level. It should be between the **FULL** and **ADD** marks.



1. Full
2. Add
3. Operating range

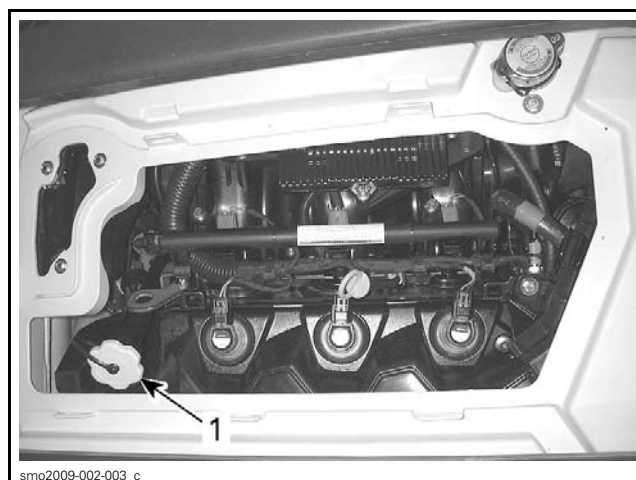
9. Add oil to ensure the level is between marks as required.

10. To add oil, remove the oil cap.

11. Place a funnel in the oil filler neck opening.

12. Add the recommended oil to the proper level.

NOTE: Do not overfill.



TYPICAL - RXT IS ILLUSTRATED

1. Oil filler cap

NOTE: Every time oil is added in the engine, the complete procedure previously explained must be carried out (engine restarted and idling for 30 seconds, then shut off, wait 30 seconds then recheck the oil level). Otherwise, you will obtain a false oil level reading.

13. Properly reinstall oil cap and dipstick.

Engine Coolant

Recommended Engine Coolant


Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically formulated for internal combustion aluminum engines.

NOTE: When available, it is recommended to use biodegradable antifreeze compatible with internal combustion aluminum engines. This will contribute to protect the environment.

Cooling system must be filled with water and antifreeze solution (50% distilled water, 50% antifreeze) or use the BRP PREMIXED COOLANT (P/N 219 700 362).

NOTE: Using a blend of 40% antifreeze with 60% distilled water will improve the cooling efficiency when watercraft is used in particularly hot weather and/or hot water condition.

Engine Coolant Level Verification



WARNING

Check coolant level with engine cold. Never add coolant in cooling system when engine is hot.

CAUTION Certain components in the engine compartment may be very hot. Direct contact may result in skin burn.

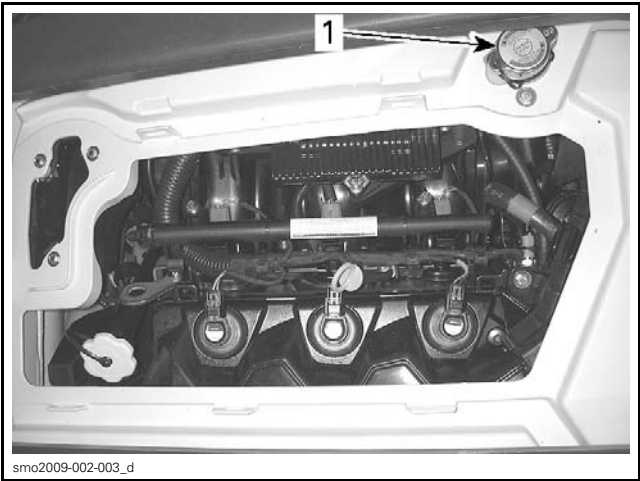
1. Ensure watercraft level.

NOTE: The watercraft is level when it is in water. When on a trailer, raise trailer tow pole and block in this position when bumper rail is level.

2. Open seat.

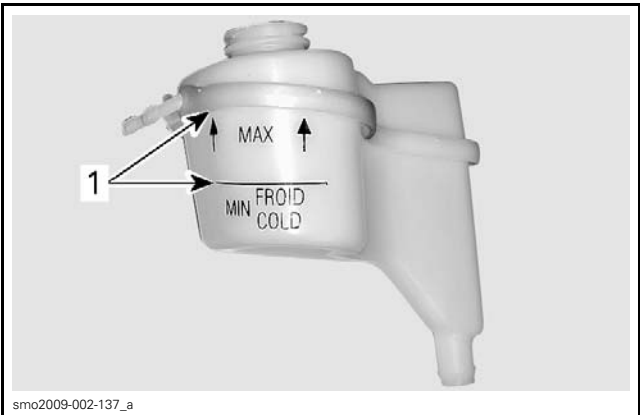
3. Remove the rear ventilation box (as applicable). Refer to *ENGINE OIL LEVEL* for the procedure.

4. Locate the coolant expansion tank cap.



TYPICAL
1. Coolant expansion tank cap

5. With watercraft on a level surface, coolant level should be between MIN. and MAX. marks on coolant expansion tank when engine is cold.




TYPICAL - COOLANT EXPANSION TANK
1. Level between marks when engine is cold

6. Adjust coolant level between marks as required. Use a funnel to avoid spillage. Do not overfill.

7. Properly reinstall and tighten filler cap, then reinstall ventilation box (as applicable) and close seat.

B.U.D.S. PROGRAMMING

Required Tools

MANDATORY TOOLS	
A personal computer (laptop or desktop)	
MPI-2 INTERFACE CARD (P/N 529 036 018)	

MANDATORY TOOLS

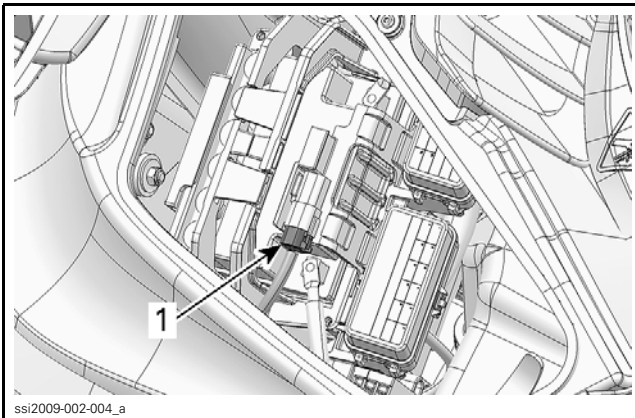
MPI-2 DIAGNOSTIC CABLE
(P/N 710 000 851)

**OPTIONAL TOOL**

Extension cable
available at electronic retail outlets.
Do not exceed 7.5 m (25 ft)

**Diagnostic Connector Location**

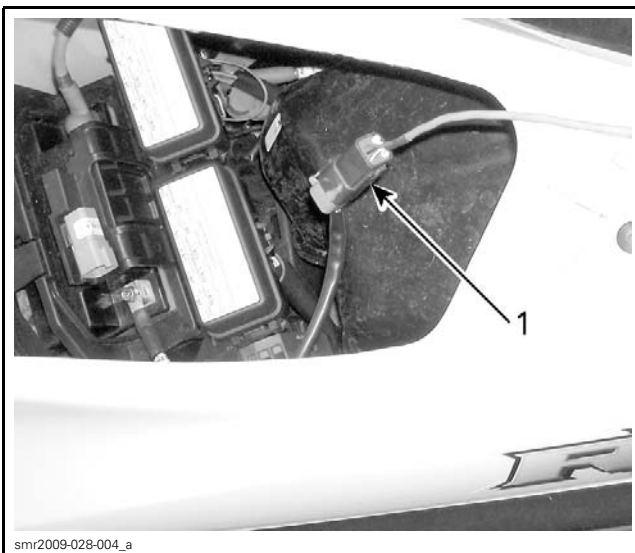
The diagnostic connector is located to the RH rear side of the watercraft, attach on the top of the battery holder.



1. Diagnostic connector

Connecting a PC to Watercraft

1. Remove the 6-pin diagnostic connector from its holder.
2. Connect MPI-2 DIAGNOSTIC CABLE (P/N 710 000 851) to watercraft connector.



TYPICAL

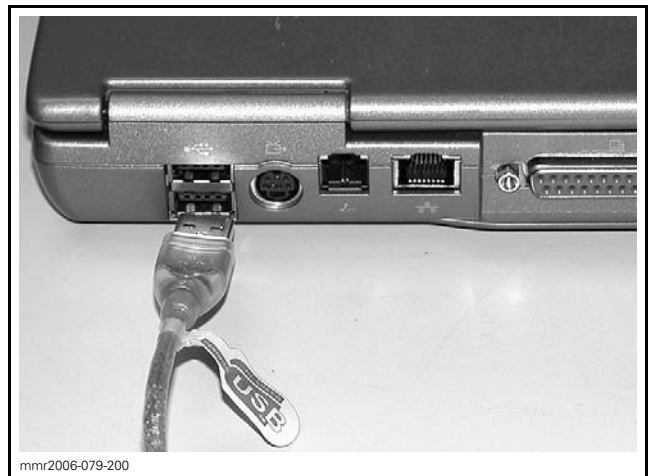
1. Diagnostic cable

3. Connect MPI-2 cable remaining connector to MPI-2 INTERFACE CARD (P/N 529 036 018).



NOTE: An optional MALE-FEMALE EXTENSION SERIAL CABLE (P/N DB9) available at electronic retail outlets can be used between diagnostic cable and MPI-2 interface. Do not exceed 7.6 m (25 ft), communication errors may occur when using a cable that is too long.

4. Connect remaining MPI-2 interface card connector to the USB port of a PC (personal computer).



NOTE: If a problem occurs during the communication between the watercraft and B.U.D.S. Refer to *COMMUNICATION TOOLS AND B.U.D.S.* subsection in the appropriate shop manual.

Reading the Electronic Control Units Using B.U.D.S. Software

NOTE: IMPORTANT: Ensure all connections have been made **before starting B.U.D.S.** to allow proper operation. Always use the latest appropriate version of B.U.D.S. available on BOSSWeb.

1. Connect the tether cord (D.E.S.S. key) to watercraft engine cut-off switch (D.E.S.S. post).
2. Briefly press the start/stop button to power the ECM. **Engine must not crank.**
3. Start B.U.D.S..

NOTE: B.U.D.S. will automatically choose the appropriate MPI 2 protocol.

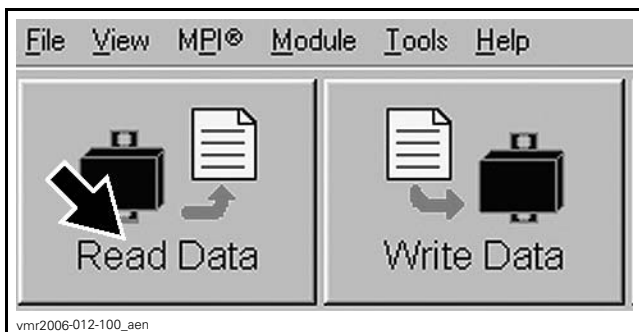
4. Ensure the status bar shows the proper protocol and the proper number of detected ECUs.

MODEL	PROTOCOL	ECU
iS models	Kw2000 500K	4 (Cluster, ECM iBR and iS)
All models except iS models	Kw2000 500K	3 (Cluster, ECM and iBR)



TYPICAL CONNECTION SUCCESSFUL – iS MODELS

5. Read ECM by clicking the **Read Data** button.



B.U.D.S. is now ready to use. Refer to *TETHER CORD PROGRAMMING* to complete procedure.

Tether Cord Programming

The tether cords are color-coded to differentiate them.

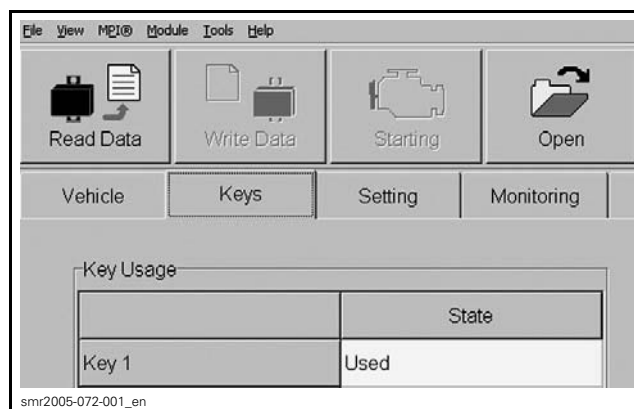
TETHER CORD TYPE	COLOR
Normal	YELLOW or BLACK
Learning	GREEN

1. Install a tether cord to be added or erased, on watercraft engine cut-off switch.



1. Tether cord to be added or erased

2. Start B.U.D.S. and logon
3. Click on **Keys** tab.



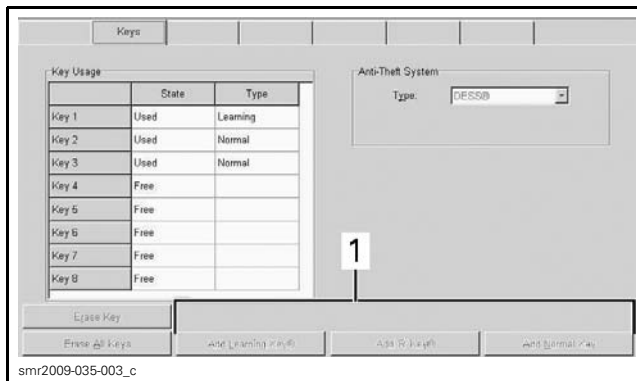
4. Try all tether cord(s) programmed on the watercraft.

Adding a Tether Cord

1. Click on the desired **Add Key** button on bottom of screen according to the type of tether cord you want to program.

WARNING

If programming a Learning tether cord, make sure to use the proper tether cord type (color) to avoid possible confusion. Failure to do so can result in severe injury or death for the operator.



1. ADD KEY buttons

After approximately 10 seconds, the following window will pop up confirming the new tether cord has been saved in the PC computer.



2. If programming is complete, write the changes to the ECM. Refer to *WRITING CHANGES IN AN ECU* in this subsection.

Adding another Tether Cord

1. Remove the tether cord from engine cut-off switch.
2. Install the next tether cord to be programmed on engine cut-off switch.
3. Click on the desired **Add Key** button.
4. If programming is complete, write the changes to the ECM. Refer to *WRITING CHANGES IN AN ECU* in this subsection.

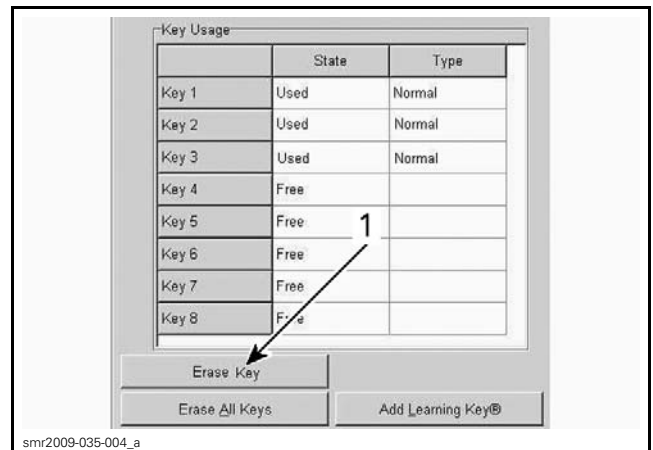
Erasing a Tether Cord

1. Install the tether cord to be erased on the watercraft engine cut-off switch.



1. Tether cord to be erased

2. Click on **Erase Key** button at bottom of B.U.D.S. screen.



1. Click on this button

3. After approximately 10 seconds the following message will appear.



4. The tether cord is now erased in the PC computer.

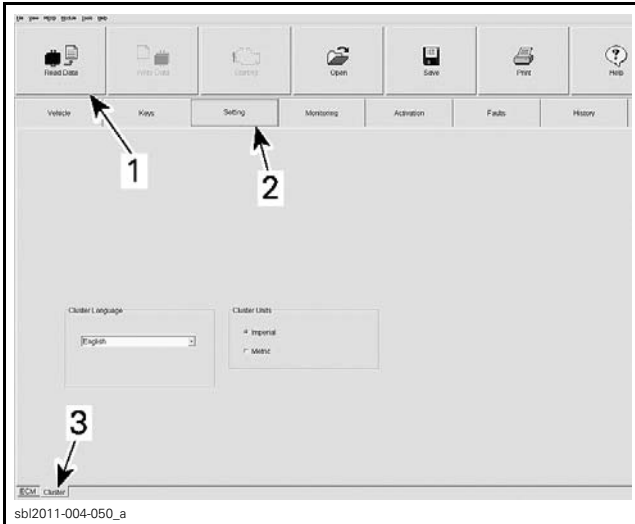
5. If programming is complete, write the changes to the ECM. Refer to *WRITING CHANGES IN AN ECU* in this subsection.

Setting Maximum Speed for Learning Tether Cord

To change Learning tether cord settings, refer to the *OPERATOR'S GUIDE*.

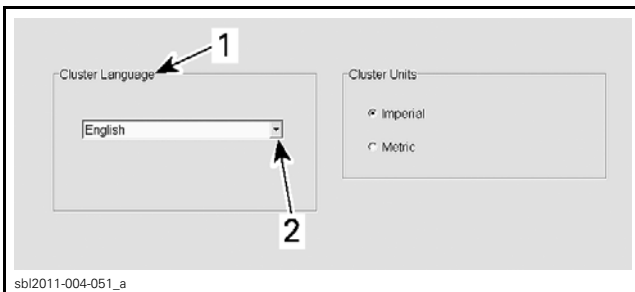
Information Center Setup

1. Select the **Read Data** button.
2. Choose the **Setting** tab at the top of the page.
3. At the bottom LH side of the setting page, select the **Cluster** tab.



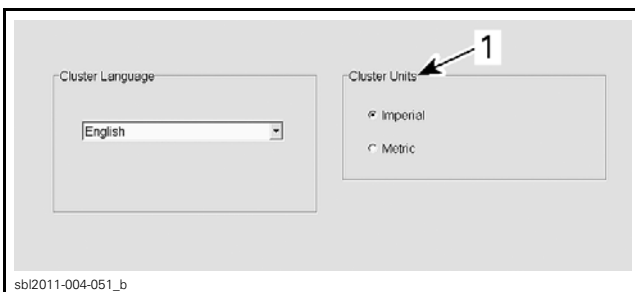
1. Read Data
2. Setting tab
3. Cluster tab

4. In the **Cluster Language** field, click on the arrow to the right of the selected language to expand a list of available languages, then choose the desired language.



1. Cluster language field
2. Click on this arrow to expand list of available languages

5. In the **Cluster Units** field, choose the desired unit of measurement, **Imperial** or **Metric**.



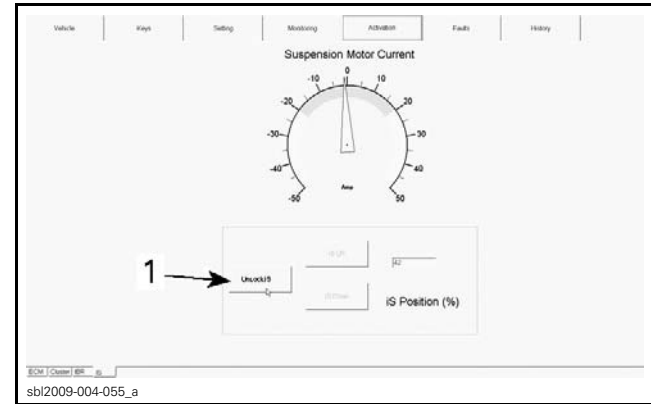
1. Cluster Units field

Unlock iS Suspension

iS Models Only

The iS suspension is locked in B.U.D.S. and will not move until you click on the **UNLOCK iS** button.

NOTE: Make sure moving deck is detached. Refer to *RELEASING MOVING DECK*.

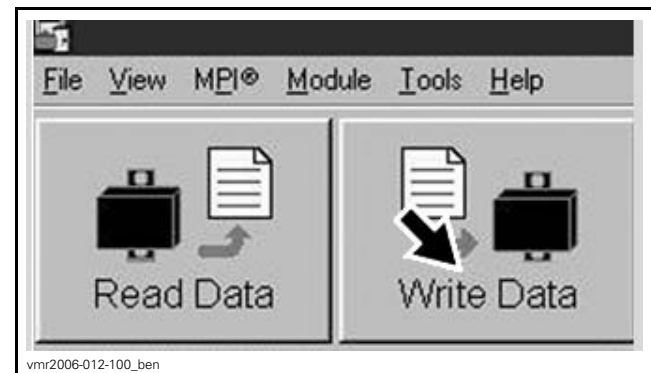


ACTIVATION AND IBR TABS

1. UNLOCK iS button

Writing Changes in an ECU

When making a data or setting change in an ECU using B.U.D.S., save the new data (or setting) in the ECU by clicking the **Write Data** button.



NOTE: If the word **Modified** appears in the vehicle file identification number at the top of the B.U.D.S. page, then a change has been made that requires selecting the **Write Data** for the change to be saved.



1. Indicate setting or data modified; Write Data to save

After the write operation is complete, remove tether cord from engine cut-off switch.

NOTE: If for some reason the writing operation fails, exit B.U.D.S. and reenter all the previously entered lost information or setting.

Ending a B.U.D.S. Session

1. Click on the FAULT tab and check if there are any active faults. If so, service watercraft then clear the faults.

NOTICE After a problem has been solved, ensure to clear fault(s) in ECM.

2. Click on WRITE DATA button to record new settings and information.
3. Click on EXIT button (right most) to end session.
4. Disconnect all cables and hardware from watercraft.
5. Ensure to reinstall cap over the communication connector and all watercraft parts.

ADJUSTMENTS

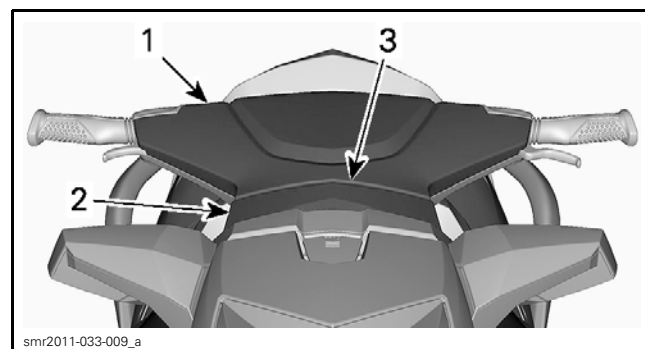
►Steering Alignment

Install two bungee cords to maintain handlebar in position during the procedure.

Raise the iBR gate by activating the iBR override function. Refer to *iBR AND VTS* subsection.

All Models Except RXT-X

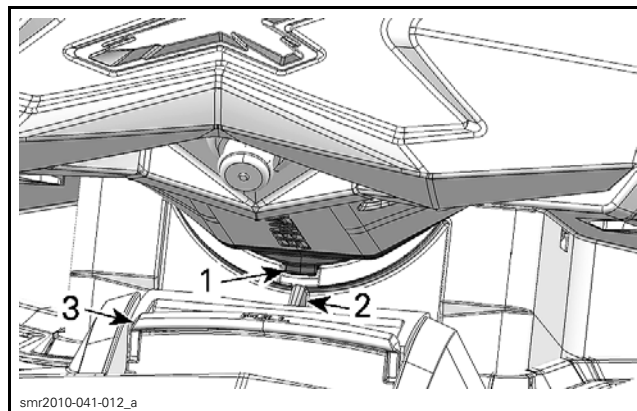
Position steering so that the edge of the steering column cover and the edge of the gauge support (or console) are flush.



1. Steering column cover
2. Console or gauge support
3. Flush edges

RXT-X Models

Align the center of the rear extension block lower tab with the center of the rib located in front of the steering tilt release handle.

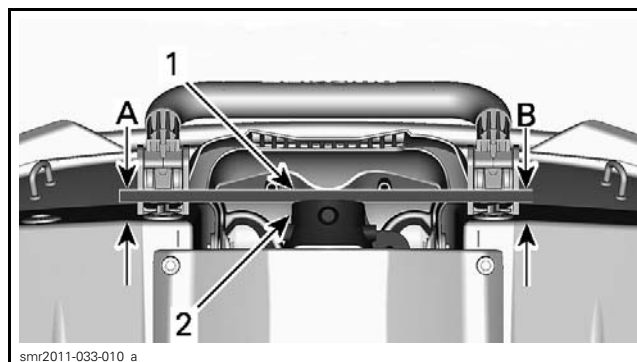


1. Lower tab of the rear extension block
2. Rib
3. Steering tilt release handle

All Models

Check jet pump nozzle alignment by placing a straight edge centered on the nozzle outer end.

Measure the distance on each side of the straight edge.



VIEW FROM UNDERNEATH THE HULL

1. Straight edge
2. Nozzle
- A. Port measure
- B. Starboard measure

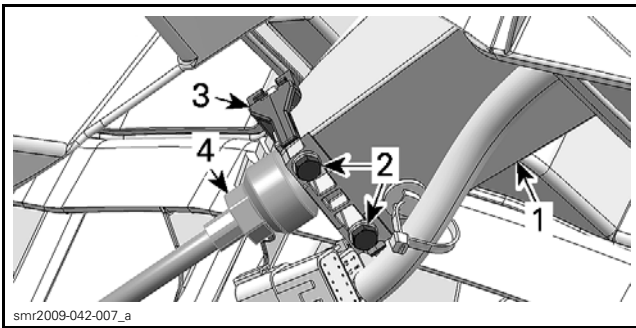
When properly aligned, measures A and B are equal.

If necessary, adjust cable at steering column as follows:

Open storage compartment cover and remove basket or access cover as applicable.

Loosen steering cable clamp bolts.

Turn adjusting nut as required.



1. Steering column support
2. Steering cable clamp bolts
3. Steering cable clamp
4. Steering cable adjusting nut

Tighten steering cable clamp bolts to **9 N•m (80 lbf•in)**.

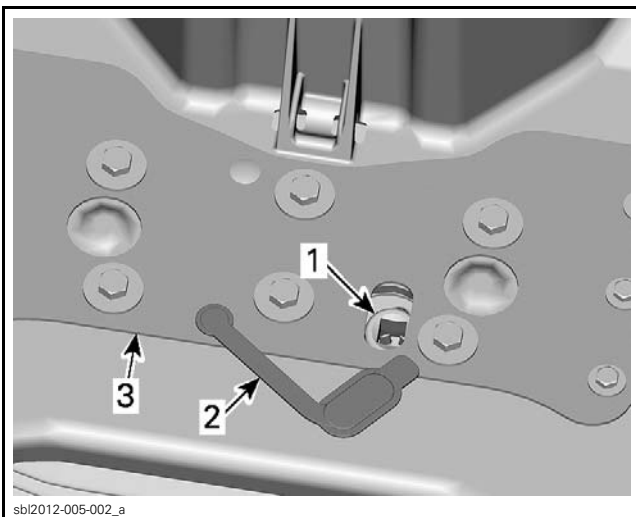
NOTICE Verify when the handlebar is turned completely to the left or right side, that there is no interference with jet pump or reverse parts. ◀

Suspension Spring Preload Adjustment RXT-X RS aS and GTX S

At factory, the suspension is set to 0 (fully unscrewed position) to ease transportation.

Using a ratchet wrench and 1/2" drive extension, turn the spring preload adjuster clockwise for 3 clicks (approximately 1/2 turn).

NOTE: Refer to *OPERATOR'S GUIDE* or *SHOP MANUAL* for further adjustment details.



TYPICAL – UNDER SEAT, IN FRONT OF SEAT HINGE

1. Upper shock support
2. Rubber cap
3. Spring preload adjuster

FINAL PREPARATION

O.T.A.S. Operation

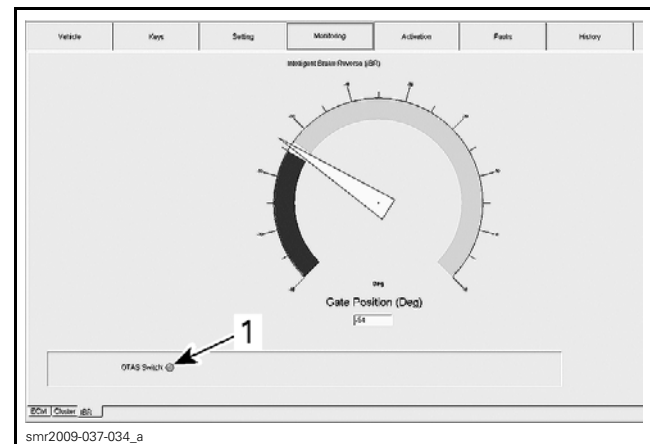
This test is to be performed with the watercraft in the water (test tank or on a trailer).

NOTICE If the test is performed on a trailer, ensure no debris or rocks can damage the jet pump.

1. Connect B.U.D.S. See *CONNECTING A PC TO WATERCRAFT* above in this bulletin.
2. Start engine.
3. Raise engine speed higher than 4000 RPM for more than 1 second.
4. Release throttle while steering is in the straight ahead position.
5. Within 1 to 3 seconds of releasing throttle, turn handlebar all the way to one side.

NOTE: The O.T.A.S. should come on by keeping or increasing engine speed to approximately 3000 RPM. Even so, if the test is performed out of water, the engine RPM may increase to 8000 RPM.

6. Immediately look in B.U.D.S. to see if the O.T.A.S. system "LED" turns on.



MONITORING AND IBR TABS

1. O.T.A.S. "LED"

Engine speed will gradually decrease to idle speed within approximately 5 seconds of O.T.A.S. activation.

7. Repeat test for the other side.

If O.T.A.S. system "LED" does not turn on, check for fault codes.

If the RPM does not behave as described, check the O.T.A.S. switch. Refer to the appropriate *SHOP MANUAL* for complete procedure.

Watercraft Test Run

Ride the watercraft to ensure proper operation of the following systems and components.

1. Steering operation
2. Throttle lever operation (iTC™)
3. Brake lever operation (iBR™)
4. Reverse system operation (iBR)
5. Suspension system operation (iS)
6. VTS operation
7. Information center operation
 - 7.1 Speedometer
 - 7.2 Indicator lights
 - 7.3 Messages
 - 7.4 Features
 - 7.5 Etc.
8. Cruise and slow speed mode features
9. Hull leak check
10. Complete recall or factory-directed modification (if applicable)
11. Check for fault code with B.U.D.S.

Protective Films Removal

1. Slowly peel off protective films to remove it.
2. Remove bar code decal from handlebar.

Compliance Label

For Watercrafts Sold in Australia

Install Australian boat plate as per local legislation.

Watercraft Safety Decal Installation

1. If applicable, replace English safety decals as required by law.
2. Ensure that the new decals are installed at the same location and over the factory installed decals.

Watercraft Cleaning

1. Clean watercraft thoroughly and polish.

NOTICE Clean apparent fiberglass and plastic parts with a clean cloth and soapy water or isopropyl alcohol. Never use strong detergent, degreasing agent, paint thinner, acetone, etc. Do not apply isopropyl alcohol directly on decals.

DELIVERY TO CUSTOMER

Documentation

Customer and dealer must sign the *PREDELIVERY CHECK LIST*.

Give to customer:

- Operator's guide according to customer country language (when available)
- Safety DVD
- Quick reference card
- Other guides or instruction sheet pertaining to accessories or options (if applicable)
- Copy of the signed *PREDELIVERY CHECK LIST*.

Explain to customer that it is necessary to press the start/stop button without installing tether cord to initially feed fuel system.

A tag is tied to handlebar. Leave it there until delivery and make sure customer reads it.

Basic Watercraft Operation Review

Where possible, give a brief demo ride and explain watercraft operation and features.

Break-In Period

Explain to the purchaser that with Sea-Doo watercraft powered by Rotax® engines, a break-in period of 10 hours is required before continuous operation at full throttle.

To achieve a good break-in, vary the engine speed every few minutes with brief wide open throttle accelerations of up to 15 seconds.

NOTICE Continued wide open throttle runs and prolonged cruising without speed variations should be avoided, this can cause engine damage during the break-in period.

SPECIFICATIONS

WATERCRAFT		GTX LIMITED iS 260	GTX S 155
ENGINE			
Type		Rotax 4-TEC. Single Over Head Camshaft (SOHC)	
Induction		Gear driven supercharger with slip clutch. Water/air intercooler.	Naturally aspirated
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2.5 in)	
Displacement		1 494 cm ³ (91.2 in ³)	
Compression ratio		8.4:1	10.6:1
COOLING SYSTEM			
Type		Closed-loop system (CLCS)	
FUEL SYSTEM			
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (62 mm) with actuator	
ELECTRICAL SYSTEM			
Ignition		IDI (inductive discharge ignition)	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.03 in)	
Battery		12 V, 30 A•h. Electrolyte type	
PROPULSION			
Propulsion system		Sea-Doo jet pump with iBR (intelligent brake and reverse)	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Impeller		Stainless steel	
Transmission	Type	Direct drive	
VTS system		Yes	

WATERCRAFT		GTX LIMITED iS 260	GTX S 155
DIMENSIONS			
Length		354 cm (139 in)	
Width		122 cm (48 in)	
Height		111.4 cm (43.9 in)	116.6 cm (45.9 in)
WEIGHT AND LOADING CAPACITY			
Weight (dry)		446 kg (980 lb)	436 kg (961 lb)
Rider capacity (refer to load limit)		1, 2 or 3	
Storage capacity		62 L (16.4 U.S. gal.)	52 L (13.7 U.S. gal.)
Load limit (passengers + luggage)		226 kg (500 lb)	226 kg (500 lb)
FLUIDS			
Fuel	Type	Unleaded	
	Minimum octane	Inside North America: (87 (RON + MON)/2)	
		Outside North America: 92 RON	
	Recommended octane rating for optimum performance	Inside North America: (91 (RON + MON)/2)	Inside North America: (87 (RON + MON)/2)
		Outside North America: 95 RON	Outside North America: 92 RON
	Tank capacity	70 L (18.5 U.S. gal.)	
Engine oil	Type	XPS synthetic blend oil (summer grade). Refer to <i>FLUIDS</i> section for more information	
	Capacity	3 L (3.2 qt (U.S. liq.)) Oil change w/filter	
Cooling system	Coolant type	See <i>ENGINE COOLANT</i> in the <i>FLUIDS</i> section	
	Capacity	5.5 L (5.8 qt (U.S. liq.))	

WATERCRAFT		GTX 215	GTX 155
ENGINE			
Type		Rotax 4-TEC. Single Over Head Camshaft (SOHC)	
Induction		Gear driven supercharger with slip clutch. Water/air intercooler. Naturally aspirated	
Number of cylinder		3	
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)	
Bore		100 mm (3.9 in)	
Stroke		63.4 mm (2.5 in)	
Displacement		1 494 cm ³ (91.2 in ³)	
Compression ratio		8.4:1	10.6:1
COOLING SYSTEM			
Type		Closed-loop system (CLCS)	
FUEL SYSTEM			
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (62 mm) with actuator	
ELECTRICAL SYSTEM			
Ignition		IDI (inductive discharge ignition)	
Spark plug	Make and type	NGK, DCPR8E	
	Gap	0.75 mm (.03 in)	
Battery		12 V, 30 A•h. Electrolyte type	
PROPULSION			
Propulsion system		Sea-Doo jet pump with iBR (intelligent brake and reverse)	
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator	
	Material	Aluminum	
Impeller		Stainless steel	
Transmission	Type	Direct drive	
VTS system		Yes	

WATERCRAFT		GTX 215	GTX 155
DIMENSIONS			
Length		354 cm (139 in)	
Width		122 cm (48 in)	
Height		116.6 cm (45.9 in)	
WEIGHT AND LOADING CAPACITY			
Weight (dry)		374 kg (825 lb)	370 kg (816 lb)
Rider capacity (refer to load limit)		1, 2 or 3	
Storage capacity		52 L (13.7 U.S. gal.)	
Load limit (passengers + luggage)		272 kg (600 lb)	
FLUIDS			
Fuel	Type	Unleaded	
	Minimum octane	Inside North America: (87 (RON + MON)/2)	
		Outside North America: 92 RON	
	Recommended octane rating for optimum performance	Inside North America: (91 (RON + MON)/2)	Inside North America: (87 (RON + MON)/2)
		Outside North America: 95 RON	Outside North America: 92 RON
	Tank capacity	60 L (15.9 U.S. gal.)	
Engine oil	Type	XPS synthetic blend oil (summer grade). Refer to <i>FLUIDS</i> section for more information	
	Capacity	3 L (3.2 qt (U.S. liq.)) Oil change w/filter	
Cooling system	Coolant type	See <i>ENGINE COOLANT</i> in the <i>FLUIDS</i> section	
	Capacity	5.5 L (5.8 qt (U.S. liq.))	

WATERCRAFT		RXT-X RS 260	RXT-X RSaS 260	RXT 260
ENGINE				
Type		Rotax 4-TEC. Single Over Head Camshaft (SOHC)		
Induction		Gear driven supercharger with slip clutch. Water/air intercooler		
Number of cylinder		3		
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)		
Bore		100 mm (3.9 in)		
Stroke		63.4 mm (2.5 in)		
Displacement		1 494 cm³ (91.2 in³)		
Compression ratio		8.4:1		
COOLING SYSTEM				
Type		Closed-loop system (CLCS)		
FUEL SYSTEM				
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (62 mm) with actuator		
ELECTRICAL SYSTEM				
Ignition		IDI (inductive discharge ignition)		
Spark plug	Make and type		NGK, DCPR8E	
	Gap		0.75 mm (.03 in)	
Battery		12 V, 30 A•h. Electrolyte type		
PROPULSION				
Propulsion system		Sea-Doo jet pump with iBR (intelligent brake and reverse)		
Jet pump	Type		Axial flow, single stage. Large hub with 10-vane stator	
	Material		Aluminum	
Impeller		Stainless steel		
Transmission	Type		Direct drive	
VTS	Type		Yes	

WATERCRAFT		RXT-X RS 260	RXT-X RSaS 260	RXT 260
DIMENSIONS				
Length		354 cm (139 in)		
Width		122 cm (48 in)		
Height		118.1 cm (46.5 in)		116.6 cm (45.9 in)
WEIGHT AND LOADING CAPACITY				
Weight (dry)		388 kg (855 lb)	436 kg (960 lb)	383 kg (845 lb)
Rider capacity (refer to load limit)		1, 2 or 3		
Storage capacity		52 L (13.7 U.S. gal.)		
Load limit (passengers + luggage)		272 kg (600 lb) RXT-X RS aS: 226 kg (500 lb)		
FLUIDS				
Fuel	Type	Unleaded		
	Minimum octane	Inside North America: (87 (RON + MON)/2)		
		Outside North America: 92 RON		
	Recommended octane rating for optimum performance	Inside North America: (91 (RON + MON)/2)		
		Outside North America: 95 RON		
Fuel tank capacity	RXT iS 260, RXT-X RS aS 260	70 L (18.5 U.S. gal.)		
	RXT-X RS260, RXT 260	60 L (15.9 U.S. gal.)		
Engine oil	Type	XPS synthetic blend oil (summer grade). Refer to <i>FLUIDS</i> section for more information		
	Capacity	3 L (3.2 qt (U.S. liq.)) Oil change w/filter		
Cooling system	Coolant type	See <i>ENGINE COOLANT</i> in the <i>FLUIDS</i> section		
	Capacity	5.5 L (5.8 qt (U.S. liq.))		

WATERCRAFT		WAKE PRO 215
ENGINE		
Type		Rotax 4-TEC. Single Over Head Camshaft (SOHC)
Induction		Gear driven supercharger with slip clutch. Water/air intercooler
Number of cylinder		3
Number of valve		12 valves (4 per cylinder) with hydraulic lifters (no adjustment)
Bore		100 mm (3.9 in)
Stroke		63.4 mm (2.5 in)
Displacement		1 494 cm ³ (91.2 in ³)
Compression ratio		8.4:1
COOLING SYSTEM		
Type		Closed-loop system (CLCS)
FUEL SYSTEM		
Fuel injection type		Multipoint fuel injection with iTC (intelligent Throttle Control). Single throttle body (62 mm) with actuator
ELECTRICAL SYSTEM		
Ignition		IDI (inductive discharge ignition)
Spark plug	Make and type	NGK, DCPR8E
	Gap	0.75 mm (.03 in)
Battery		12 V, 30 A•h. Electrolyte type
PROPULSION		
Propulsion system		Sea-Doo jet pump with iBR (intelligent brake and reverse)
Jet pump	Type	Axial flow, single stage. Large hub with 10-vane stator
	Material	Aluminum
Impeller		Stainless steel
Transmission	Type	Direct drive
VTS	Type	Yes

WATERCRAFT		WAKE PRO 215
DIMENSIONS		
Length		354 cm (139 in)
Width		122 cm (48 in)
Height		116.6 cm (45.9 in)
WEIGHT AND LOADING CAPACITY		
Weight (dry)		388 kg (855 lb)
Rider capacity (refer to load limit)		1, 2 or 3
Storage capacity		52 L (13.7 U.S. gal.)
Load limit (passengers + luggage)		272 kg (600 lb)
Skier or wakeboarder gross weight limit on ski/wakeboard post		114 kg (250 lb)
FLUIDS		
Fuel	Type	Unleaded
	Minimum octane	Inside North America: (87 (RON + MON)/2)
		Outside North America: 92 RON
	Recommended octane rating for optimum performance	Inside North America: (91 (RON + MON)/2)
		Outside North America: 95 RON
	Tank capacity	60 L (15.9 U.S. gal.)
Engine oil	Type	XPS synthetic blend oil (summer grade). Refer to <i>FLUIDS</i> section for more information
	Capacity	3 L (3.2 qt (U.S. liq.)) Oil change w/filter
Cooling system	Coolant type	See <i>ENGINE COOLANT</i> in the <i>FLUIDS</i> section
	Capacity	5.5 L (5.8 qt (U.S. liq.))

NOTE: BRP reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its products without imposing any obligation upon itself to install them on its products previously manufactured.